

STATE OF OHIO  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF GEOLOGICAL SURVEY  
Horace R. Collins, Chief

Information Circular No. 46

**SUBSURFACE INFORMATION CATALOG,  
1968-1974**

compiled by

Barbara J. Adams

Columbus  
1976





SCIENTIFIC AND TECHNICAL STAFF  
OF THE  
DIVISION OF GEOLOGICAL SURVEY

ADMINISTRATION

Horace R. Collins, MS, *State Geologist and Division Chief*  
Richard A. Struble, PhD, *Geologist and Assistant Chief*

William J. Buschman, Jr., BS, *Administrative Geologist*  
Barbara J. Adams, *Office Manager*

REGIONAL GEOLOGY

Ronald D. Stieglitz, PhD, *Geologist and Section Head*  
Richard W. Carlton, PhD, *Geologist*  
Michael L. Couchot, MS, *Geologist*  
Richard M. DeLong, MS, *Geologist*  
Michael C. Hansen, MS, *Geologist*  
Michele L. Risser, BS, *Geologist*  
David A. Stith, MS, *Geologist*  
Robert G. Van Horn, MS, *Geologist*  
Joel D. Vormelker, MS, *Geologist*

LAKE ERIE

Charles H. Carter, PhD, *Geologist and Section Head*  
D. Joe Benson, PhD, *Geologist*  
Donald E. Guy, Jr., BA, *Geologist*  
Dale L. Liebenthal, *Boat Captain*  
Thomas J. Feldkamp, BS, *Geology Technician*

TECHNICAL PUBLICATIONS

Jean Simmons Brown, MS, *Geologist and Editor, Supervisor*  
Philip J. Celnar, BFA, *Cartographer Supervisor*  
James A. Brown, *Cartographer*  
Donald R. Camburn, *Cartographer*  
James E. Hairston, *Cartographer*  
Jean M. Leshner, *Photocopy Composer*

GEOCHEMISTRY LABORATORY

George Botoman, MS, *Geologist*  
Norman F. Knapp, PhD, *Chemist*  
E. Lorraine Thomas, *Laboratory Technician*

SUBSURFACE GEOLOGY

Adriaan Janssens, PhD, *Geologist and Section Head*  
Jeffrey B. Hermann, BS, *Geologist*  
Frank L. Majchszak, MS, *Geologist*  
Craig B. Moore, BS, *Geology Technician*  
James Wooten, *Geology Technician*  
Linda C. Gearheart, *Clerk*

PUBLIC SERVICE

Jean Simmons Brown, MS, *Geologist and Editor, Supervisor*  
Madge R. Fitak, BS, *Geologist*  
Pauline Smyth, MS, *Geologist*  
Donna M. Swartz, *Technical Typist*

TECHNICAL EDITING

Jean Simmons Brown, MS, *Geologist and Editor, Supervisor*  
Susan L. Duffield, BS, *Geologist and Assistant Editor*  
Merrienne Hackathorn, MS, *Geologist and Assistant Editor*

STATE OF OHIO  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF GEOLOGICAL SURVEY  
Horace R. Collins, Chief

Information Circular No. 46

**SUBSURFACE INFORMATION CATALOG,  
1968-1974**

compiled by  
Barbara J. Adams

Columbus  
1976



## CONTENTS

|                         | Page |                         | Page |
|-------------------------|------|-------------------------|------|
| Abbreviations .....     | 1    | Logan County .....      | 12   |
| Notes .....             | 1    | Lorain County .....     | 13   |
| Adams County .....      | 2    | Lucas County .....      | 13   |
| Allen County .....      | 2    | Madison County .....    | 13   |
| Ashland County .....    | 2    | Mahoning County .....   | 13   |
| Ashtabula County .....  | 2    | Marion County .....     | 13   |
| Athens County .....     | 2    | Medina County .....     | 13   |
| Auglaize County .....   | 3    | Meigs County .....      | 14   |
| Belmont County .....    | 3    | Mercer County .....     | 14   |
| Brown County .....      | 3    | Monroe County .....     | 14   |
| Butler County .....     | 3    | Montgomery County ..... | 15   |
| Carroll County .....    | 3    | Morgan County .....     | 15   |
| Champaign County .....  | 4    | Morrow County .....     | 16   |
| Clark County .....      | 4    | Muskingum County .....  | 16   |
| Clinton County .....    | 4    | Noble County .....      | 18   |
| Columbiana County ..... | 4    | Ottawa County .....     | 19   |
| Coshocton County .....  | 5    | Paulding County .....   | 19   |
| Crawford County .....   | 6    | Perry County .....      | 19   |
| Cuyahoga County .....   | 6    | Pickaway County .....   | 20   |
| Darke County .....      | 6    | Pike County .....       | 20   |
| Defiance County .....   | 6    | Portage County .....    | 20   |
| Delaware County .....   | 6    | Putnam County .....     | 21   |
| Erie County .....       | 6    | Richland County .....   | 21   |
| Fairfield County .....  | 7    | Sandusky County .....   | 21   |
| Fayette County .....    | 7    | Scioto County .....     | 21   |
| Franklin County .....   | 7    | Seneca County .....     | 21   |
| Fulton County .....     | 7    | Shelby County .....     | 21   |
| Gallia County .....     | 7    | Stark County .....      | 22   |
| Geauga County .....     | 7    | Summit County .....     | 23   |
| Guernsey County .....   | 8    | Trumbull County .....   | 23   |
| Hancock County .....    | 9    | Tuscarawas County ..... | 23   |
| Hardin County .....     | 9    | Union County .....      | 24   |
| Harrison County .....   | 9    | Van Wert County .....   | 24   |
| Henry County .....      | 9    | Vinton County .....     | 25   |
| Highland County .....   | 10   | Washington County ..... | 25   |
| Hocking County .....    | 10   | Wayne County .....      | 26   |
| Holmes County .....     | 10   | Williams County .....   | 27   |
| Huron County .....      | 11   | Wood County .....       | 27   |
| Jackson County .....    | 11   | Wyandot County .....    | 27   |
| Jefferson County .....  | 11   | Kentucky .....          | 27   |
| Knox County .....       | 12   | New York .....          | 28   |
| Lake County .....       | 12   | Pennsylvania .....      | 28   |
| Lawrence County .....   | 12   | West Virginia .....     | 28   |
| Licking County .....    | 12   | Canada .....            | 29   |



# SUBSURFACE INFORMATION CATALOG, 1968-1974

compiled by  
Barbara J. Adams

This is the third in a series of supplements to the "Subsurface Information Catalog," Information Circular 31. This supplement includes data on the availability of geophysical logs (x indicates log in files) and the range and completeness of sample descriptions which have been added to the files of the Subsurface Geology Section of the Division of Geological Survey from January 1, 1968, through December 31, 1974.

## ABBREVIATIONS

### LAND DIVISION

|       |                                     |
|-------|-------------------------------------|
| Allot | <i>Allotment(s)</i>                 |
| Div   | <i>Division</i>                     |
| Fr    | <i>Fraction</i>                     |
| OS    | <i>Old Survey</i>                   |
| Q     | <i>Quarter</i>                      |
| R     | <i>Range</i>                        |
| Sec   | <i>Section(s)</i>                   |
| T     | <i>Township</i>                     |
| Tr    | <i>Tract</i>                        |
| VMSL  | <i>Virginia Military Survey Lot</i> |

### SYSTEM REACHED

|      |                      |
|------|----------------------|
| Penn | <i>Pennsylvanian</i> |
| Miss | <i>Mississippian</i> |
| Dev  | <i>Devonian</i>      |
| Sil  | <i>Silurian</i>      |
| Ord  | <i>Ordovician</i>    |
| Camb | <i>Cambrian</i>      |
| PC   | <i>Precambrian</i>   |

### WATER-WELL NUMBER

|    |                     |
|----|---------------------|
| CP | <i>Central Plan</i> |
| M  | <i>Maumee</i>       |
| P  | <i>Portage</i>      |
| S  | <i>Sandusky</i>     |
| SW | <i>Southwestern</i> |

### OTHER

|       |                            |
|-------|----------------------------|
| C     | <i>Core</i>                |
| MI(s) | <i>Missing interval(s)</i> |
| NA    | <i>Not available</i>       |
| NP    | <i>Not processed</i>       |
| vill  | <i>Village</i>             |
| W     | <i>Water</i>               |

## NOTES

Wells shown in Division of Geological Survey files as "Clinton" may have reached the Ordovician, but are shown as having reached the Silurian only.

All tests to Knox Dolomite are shown as Cambrian wells.

In Waterford and Watertown Townships, Washington County, the allotment names and locations are those used by the Washington County Engineer and may differ from the original land-subdivision designations.

## SUBSURFACE INFORMATION CATALOG

| Permit no.       | Sample no. | Township    | Land division     | Operator        | Well no.          | Lease name        | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|------------------|------------|-------------|-------------------|-----------------|-------------------|-------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                  |            |             |                   |                 |                   |                   |                  |                |                | Geophysics logs     | Sample range (ft) |                     |
| ADAMS COUNTY     |            |             |                   |                 |                   |                   |                  |                |                |                     |                   |                     |
| 8                | 2861       | Bratton     | VMSL 8658, 8769   | Simpson         | 1                 | Kaese             | 1760             | Ord            | 1973           |                     | 20-1750           | MI(s)               |
| 7                | 2405       | Monroe      |                   | Cominco         | CA-51             | Hughes            | 2404             | Camb           | 1970           |                     | 50-2404 C         |                     |
| ALLEN COUNTY     |            |             |                   |                 |                   |                   |                  |                |                |                     |                   |                     |
| 57               | 2431       | American    | Sec 29            | Dever           | M-15              | Long              | 2030             | Camb           | 1964           | x                   | 15-370 W          | MI(s)               |
|                  | 1319       | Auglaize    | 1                 |                 | Burden            | 1438-2026         |                  |                |                |                     |                   |                     |
|                  | 2430       | Jackson     | M-14              |                 | Bassitt           | 10-360 W          |                  |                |                |                     |                   |                     |
|                  | 2437       | Marion      | M-23              |                 | Ditto             | 30-360 W          |                  |                |                |                     |                   |                     |
| 67               | 2432       | Monroe      | Sec 19            | Vistron         | M-16              | Zimmerman         | 3133             | Camb           | 1968           | x                   | 20-300 W          | MI(s)               |
|                  | 2129       | Shawnee     | 1                 |                 | Standard          | 270-2785          |                  |                |                |                     |                   |                     |
|                  |            | 2749        | Shawnee           |                 | 3                 | Standard          |                  |                |                |                     | 2794-3127 C       |                     |
|                  |            |             | 2511              |                 | Shawnee           | 3                 |                  |                |                |                     | Standard          |                     |
| 70               | 2359       | Shawnee     | Sec 11            | Fenix & Scisson | 2                 | Standard          | 600              | Ord            | 1969           | x                   | 350-600 C         | MI(s)               |
|                  | 2510       | Shawnee     | 2                 |                 | Standard          | 3172              |                  |                |                |                     |                   |                     |
|                  | 2510       | Shawnee     | 1                 |                 | Standard          | 686               |                  |                |                |                     |                   |                     |
|                  | 2248       | Shawnee     | 2                 |                 | Standard          | 605               |                  |                |                |                     |                   |                     |
| ASHLAND COUNTY   |            |             |                   |                 |                   |                   |                  |                |                |                     |                   |                     |
| 2925             | 2755       | Orange      | Sec 30            | Jadoil          | 1-A               | Swinehart         | 4489             | Camb           | 1972           | x                   | 1485-4477         |                     |
| ASHTABULA COUNTY |            |             |                   |                 |                   |                   |                  |                |                |                     |                   |                     |
| 524              | 2933       | Colebrook   | Lot 1             | Miles           | 1                 | Pizon             | 3719             | Sil            | 1973           | x                   | 310-3719          | MI(s)               |
|                  | 618        | Dorset      | Lot 43            |                 | 1                 | Huber             | 3693             | Sil            | 1974           | x                   | 2085-3693         |                     |
|                  | 465        | Harts Grove | Lot 8             |                 | 1                 | Zgrabik           | 3566             | Sil            | 1972           | x                   | NP                | MI(s)               |
|                  | 2989       | Harts Grove | Lot 25            |                 | 1                 | Rod & Gun Club    | 3726             | Sil            | 1973           | x                   | 3479-3501 C       |                     |
| 213              | 2306       | Jefferson   | Lot 8 OS          | Simpson         | 1                 | Moody             | 3328             | Sil            | 1969           | x                   | 0-3320            | MI(s)               |
|                  | 2238       | Jefferson   | 1                 |                 | Kemmer            | 6440              | Camb             | 1968           | x              | 450-6440            |                   |                     |
|                  |            | 217         | Lenox             |                 | 1                 | Remelius          | 6025             | Camb           | 1969           | x                   | 500-5750          |                     |
|                  |            | 140         | Monroe            |                 | Lot 1, T12N, R1W  | 1                 | Anderson         | 3151           | Sil            | 1961                | x                 | 2942-3151           |
| 147              | 2597       | Monroe      | Lot 1, T12N, R1W  | 1               | Fedor             | 3177              | Sil              | 1961           | x              | 2700-3161           |                   |                     |
| 69               | 3229       | Monroe      | Lot 2, T12N, R1W  | Galpin          | 2                 | Kovacic           | 3222             | Sil            | 1959           |                     | 3101-3201         | MI(s)               |
|                  | 2594       | Monroe      | 1                 |                 | Takacs            | 3314              | Sil              | 1959           | x              | 2093-3314           |                   |                     |
|                  |            | 2599        | Monroe            |                 | Lot 11, T12N, R1W | 1                 | Richards         | 3355           | Sil            | 1966                | x                 | 50-3010             |
|                  |            | 125         | 2595              |                 | Monroe            | Lot 11, T12N, R1W | 1                | Waddle         | 3266           | Sil                 | 1960              | x                   |
| 172              | 2598       | Monroe      | Lot 12, T12N, R1W | 1               | Humphrey          | 3257              | Sil              | 1962           | x              | 2690-3136           |                   |                     |
| 286              | 2600       | Monroe      | Lot 12, T12N, R1W | U.S. Gas & Oil  | 2                 | Simak             | 3268             | Sil            | 1966           | x                   | 2922-3261         | MI(s)               |
|                  | 2364       | Morgan      | 1                 |                 | Roulston          | 6670              | PC               | 1970           | x              | 20-6640             |                   |                     |
|                  |            | 2350        | New Lyme          |                 | 1                 | Kaderly           | 6367             | Camb           | 1970           | x                   | 200-6330          |                     |
|                  |            | 627         | Orwell            |                 | 1                 | Ware              | 3765             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 358              | 2378       | Windor      | Lot 1, R8         | 1               | Miller            | 6552              | Camb             | 1970           | x              | 200-5400            |                   |                     |
| ATHENS COUNTY    |            |             |                   |                 |                   |                   |                  |                |                |                     |                   |                     |
| 1769             | 3095       | Alexander   | Sec 17            | Johnston        | 1                 | French            | 4120             | Sil            | 1974           | x                   | NP                | MI(s)               |
|                  | 1661       | Canaan      | Sec 2             |                 | 1                 | Crawford          | 1462             | Miss           | 1968           |                     | 150-1462          |                     |
|                  | 1655       | Canaan      | Sec 2             |                 | 1                 | Christy           | 1738             | Miss           | 1967           |                     | 480-1695          | MI(s)               |
|                  | 1698       | 2785        | Carthage          |                 | Sec 19            | 1                 | Clark            | 5104           | Sil            | 1972                | x                 |                     |
| 1780             | 2273       | Dover       | Sec 4             | Poston          | 2                 | Sugar Creek Coal  | 4225             | Sil            | 1969           | x                   | 88-4225           | MI(s)               |
|                  | 3274       | Dover       | 5                 |                 | Millfield         | 4020              | Sil              | 1974           | x              | 2700-4020           |                   |                     |
|                  |            | 2104        | Dover             |                 | 1                 | Heller-Dry Dock   | 3849             | Sil            | 1968           | x                   | 25-3785           |                     |
|                  |            | 3270        | Dover             |                 | 1                 | Poston            | 3889             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 3094             | Lee        | 1           | Johnston          | 1               | Diamond           | 3897              | Sil              | 1974           | x              | NP                  |                   |                     |
| 1025             | 2294       | Lodi        | Sec 32            | Shield          | 2                 | Weeks             | 4692             | Sil            | 1969           |                     | 40-4690           | MI(s)               |
|                  | 2730       | Troy        | 1                 |                 | Conley            | 2030              | Miss             | 1951           |                | 310-2030            |                   |                     |
|                  |            | 2739        | Troy              |                 | 1                 | Dutton            | 3995             | Dev            | 1950           |                     | 135-3995          |                     |
|                  |            | 1059        | 2722              |                 | Troy              | 2                 | Ice              | 5685           | Sil            | 1953                |                   | 1320-5682           |

| Permit no.                | Sample no. | Township         | Land division | Operator           | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Geophysics logs | Information on file<br>Sample range (ft) | Missing interval(s) |
|---------------------------|------------|------------------|---------------|--------------------|----------|-----------------------|------------------|----------------|----------------|-----------------|------------------------------------------|---------------------|
| ATHENS COUNTY (continued) |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 1060                      | 2725       | Troy             | Sec 3         | Putnam             | 2        | Conley George         | 4278             | Dev            | 1953           |                 | 1075-4278                                | Mt(s)               |
| 1072                      | 2731       | Troy             | Sec 3         | Putnam             | 1        | Barber & Fowler       | 4098             | Dev            | 1953           | x               | 985-4098                                 | Mt(s)               |
| 1690                      | 2370       | Troy             | Sec 13        | Quaker             | 1        | Murray                | 5570             | Sil            | 1969           |                 | 580-5570                                 | Mt(s)               |
| 977                       | 2721       | Troy             | Sec 13        | Putnam             | 1        | Smith                 | 1926             | Miss           | 1949           | x               | 125-1926                                 | Mt(s)               |
| 1696                      | 2516       | Troy             | Sec 26        | Ray Resources      | 1        |                       | 5312             | Sil            | 1971           |                 | 3600-5290                                | Mt(s)               |
| 1697                      | 2581       | Troy             | Sec 32        | Dal-Ken            | 1        | Wilson & Burkhammer   | 5227             | Sil            | 1971           | x               | 60-1440                                  | Mt(s)               |
| 1656                      | 2060       | York             | Fr 11         | An-Car Bell        | 1        | Cottingham Bell-Wolfe | 3485             | Sil            | 1967           | x               | 1450-1900                                | Mt(s)               |
| 1756                      | 3049       | York             | Sec 36        |                    | 4        |                       | 3334             | Sil            | 1974           |                 | 3290-5225                                | Mt(s)               |
| AUGLAIZE COUNTY           |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 75                        | 2455       | Goshen           | Sec 10        | Myers              | M-41     | Wittenbrink           | 380              | Sil            | 1972           |                 | 72-260 W                                 | Mt(s)               |
|                           | 2693       | Goshen           | VMSL 10659    |                    | 1        | Myers                 | 1450             | Ord            |                |                 | 0-380 W                                  | Mt(s)               |
|                           | 2748       | Goshen           | Sec 25        |                    | M-21     | Fisher                | 280              | Sil            |                |                 | 0-1450                                   | Mt(s)               |
|                           | 2435       | Moulton          | Sec 12        |                    | M-22     | Stoner                | 227              | Sil            |                |                 | 55-280 W                                 | Mt(s)               |
|                           | 2436       | Noble            |               |                    |          |                       |                  |                |                |                 | 0-227 W                                  | Mt(s)               |
| 71                        | 2503       | St. Mary's Union | Sec 22        | West Ohio          | 1        | Hoelscher Little      | 3067             | PC             | 1970           | x               | 20-3067                                  | Mt(s)               |
|                           | 2434       |                  | Sec 22        |                    | M-20     |                       | 300              | Sil            |                |                 | 45-300 W                                 | Mt(s)               |
| BELMONT COUNTY            |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 277                       | 3125       | Mead Richland    | Sec 21        | Brazel Eastern     | 1        | Brown Unterzuber      | 6050             | Dev            | 1974           |                 | NP                                       | Mt(s)               |
| 274                       | 2518       |                  | Sec 23S       |                    | 1        |                       | 2202             | Miss           | 1971           |                 | 739-2192                                 | Mt(s)               |
| BROWN COUNTY              |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 5                         | 2507       | Jackson          |               | Cominco            | CA-52    | Rockey                | 2276             | Camb           | 1970           |                 | 80-2276 C                                | Mt(s)               |
| BUTLER COUNTY             |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 5                         | 2206       | Lemon            | Sec 8         | Armco              | 2        | Armco                 | 3285             | PC             | 1968           | x               | 300-3285                                 | Mt(s)               |
| CARROLL COUNTY            |            |                  |               |                    |          |                       |                  |                |                |                 |                                          |                     |
| 363                       | 2221       | Monroe           | Sec 6         | Pointer            | 1        | McIntosh              | 5465             | Sil            | 1968           | x               | 400-5455                                 | Mt(s)               |
| 361                       | 2229       | Monroe           | Sec 12        | Vaught             | 1        | Bray & German         | 5475             | Sil            | 1968           | x               | 900-5430                                 | Mt(s)               |
| 752                       | 3067       | Orange           | Sec 7         | Quaker             | 2-0      | Stephenson            | 5796             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 743                       | 3070       | Orange           | Sec 7         | Quaker             | 3-0      | Stephenson            | 5556             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 572                       | 2761       | Orange           | Sec 11        | Stockert & Sittler | 1        | Gartrell              | 5822             | Sil            | 1971           | x               | 1160-1400                                | Mt(s)               |
|                           |            |                  |               |                    |          |                       |                  |                |                |                 | 5480-5820                                | Mt(s)               |
| 573                       | 2608       | Orange           | Sec 12        | Stockert & Sittler | 1        | Miller                | 5690             | Sil            | 1971           | x               | 5300-5690                                | Mt(s)               |
| 716                       | 3059       | Orange           | Sec 13        | Quaker             | 1-0      | Stephenson            | 5486             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 747                       | 3065       | Orange           | Sec 13        | Quaker             | 2-0      | Stephenson            | 5569             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 745                       | 3063       | Orange           | Sec 13        | Quaker             | 3-0      | Stephenson            | 5589             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 790                       | 3261       | Orange           | Sec 13        | Quaker             | 1-D      | Stephenson            | 1098             | Dev            | 1974           | x               | NP                                       | Mt(s)               |
| 709                       | 3060       | Orange           | Sec 14        | Quaker             | 2-0      | Hurlless              | 5608             | Sil            | 1973           | x               | NP                                       | Mt(s)               |
| 774                       | 3265       | Orange           | Sec 16        | Quaker             | 2-0      | Fisher                | 5818             | Sil            | 1974           | x               | NP                                       | Mt(s)               |
| 420                       | 2286       | Rose             | Sec 7         | Falsae             | 1        | Burris                | 5372             | Sil            | 1969           | x               | 210-5370                                 | Mt(s)               |
| 362                       | 2219       | Rose             | Sec 14        | Waugaman           | 1        | Otte & Halter         | 5340             | Sil            | 1968           | x               | 830-1040                                 | Mt(s)               |
|                           |            |                  |               |                    |          |                       |                  |                |                |                 | 3400-3700                                | Mt(s)               |
|                           |            |                  |               |                    |          |                       |                  |                |                |                 | 4575-5340                                | Mt(s)               |
| 597                       | 2759       | Rose             | Sec 23        | Quaker             | 1-0      | Downes                | 5397             | Sil            | 1972           | x               | 660-1200                                 | Mt(s)               |
|                           |            |                  |               |                    |          |                       |                  |                |                |                 | 3400-5390                                | Mt(s)               |
| 598                       | 2760       | Rose             | Sec 23        | Quaker             | 2-0      | Downes                | 5411             | Sil            | 1972           | x               | 650-1200                                 | Mt(s)               |
| 127                       | 3149       | Rose             | Sec 26        | Wooster            | 1        | Aston                 | 5407             | Sil            | 1949           | x               | 3400-5400                                | Mt(s)               |
| 302                       | 2136       | Union            | Sec 5         | Pan American       | 1        | Schott                | 6024             | Sil            | 1968           | x               | 5152-5307                                | Mt(s)               |
| 330                       | 2147       | Union            | Sec 35        | Duchschner         | 1        | Grove                 | 6205             | Sil            | 1968           | x               | 60-6020                                  | Mt(s)               |
| 553                       | 2498       | Washington       | Sec 4         | Management Control | 1        | McAllister            | 9074             | Camb           | 1971           | x               | 500-6200                                 | Mt(s)               |
|                           |            |                  |               |                    |          |                       |                  |                |                |                 | 1200-9067                                | Mt(s)               |



## SUBSURFACE INFORMATION CATALOG

| Permit no.        | Sample no. | Township  | Land division | Operator                                                  | Well no. | Lease name                                  | Total depth (ft) | System reached | Date completed | Information on file |                                                            | Missing interval(s) |  |
|-------------------|------------|-----------|---------------|-----------------------------------------------------------|----------|---------------------------------------------|------------------|----------------|----------------|---------------------|------------------------------------------------------------|---------------------|--|
|                   |            |           |               |                                                           |          |                                             |                  |                |                | Geophys. logs       | Sample range (ft)                                          |                     |  |
| CHAMPAIGN COUNTY  |            |           |               |                                                           |          |                                             |                  |                |                |                     |                                                            |                     |  |
| 19                | 2955       | Harrison  | Sec 12        | Grim                                                      | 1        | Good                                        | 2000             | Camb           | 1973           |                     | NP                                                         | MI                  |  |
| 17                | 2652       | Harrison  | Sec 15        | Teeters<br>Raymond International<br>Raymond International | 1        | Circle<br>State of Ohio<br>State of Ohio    | 360              | Ord?           |                |                     |                                                            |                     |  |
|                   | 2298       | Jackson   | Sec 12        |                                                           |          |                                             | 1980             | Camb           | 1969           | 116-1978            |                                                            |                     |  |
|                   | 2778       | Mad River | Sec 6         |                                                           |          |                                             | 68               | Sil            | 1971           | 56-68 C             |                                                            |                     |  |
| 16                | 2777       | Mad River | Sec 12        | Teeters                                                   | 1        | Perry                                       | 74               | Sil            |                |                     |                                                            |                     |  |
|                   | 2655       | Rush      | VMSL 6195     |                                                           |          |                                             | 350              | Sil            | 1968           | 25-350 W            | MI                                                         |                     |  |
|                   | 2297       | Union     | Sec 3         |                                                           |          |                                             | 2183             | Camb           |                | 528-2166            |                                                            |                     |  |
| 6                 | 2654       | Urbana    | VMSL 8997     | Teeters                                                   | 1        | Northwestern High School<br>Click<br>Vienna | 310              | Sil            | 1971           |                     |                                                            | MI                  |  |
|                   | 2653       | Wayne     | VMSL 8997     |                                                           |          |                                             | 420              | Sil            |                | 118-310 W           |                                                            |                     |  |
|                   | 2946       | German    | Sec 33        |                                                           |          |                                             | 185              | NA             |                | 136-185 W           |                                                            |                     |  |
| 6                 | 2629       | Greene    | Sec 35        | Teeters                                                   | 1        | Hurley<br>Hurley                            | 2502             | Ord            |                |                     |                                                            | MI                  |  |
|                   | 2345       | Harmony   | VMSL 142      |                                                           |          |                                             | 435              | Ord            |                | 295-435 W           |                                                            |                     |  |
|                   | 2766       | Liberty   |               |                                                           |          |                                             | 14               | Sil            | 1968           | 0-14 C              |                                                            |                     |  |
| 607               | 2765       | Liberty   |               | Mather<br>Mather                                          | 5        | Hurley<br>Hurley                            | 32               | Sil            | 1968           |                     | 0-32 C                                                     |                     |  |
|                   | 2766       | Liberty   |               |                                                           |          |                                             |                  |                |                |                     |                                                            |                     |  |
|                   | 2765       | Liberty   |               |                                                           |          |                                             |                  |                |                |                     |                                                            |                     |  |
| CLINTON COUNTY    |            |           |               |                                                           |          |                                             |                  |                |                |                     |                                                            |                     |  |
| COLUMBIANA COUNTY |            |           |               |                                                           |          |                                             |                  |                |                |                     |                                                            |                     |  |
| 702               | 3074       | Butler    | Sec 3         | East Ohio                                                 | 1        | Sanor                                       | 5832             | Sil            | 1975           |                     | NP                                                         | MI(s)               |  |
| 224               | 3139       | Butler    | Sec 6         | East Ohio                                                 | 1        | West                                        | 3554             | Dev            | 1945           |                     | 3155-3476                                                  |                     |  |
| 620               | 2317       | Butler    | Sec 7         | Victory                                                   | 1        | Denny                                       | 3609             | Dev            | 1946           |                     | 3553-3582                                                  |                     |  |
| 631               | 2317       | Butler    | Sec 31        | Tri-State                                                 | 1        | Sanor                                       | 8655             | Camb           | 1969           |                     | 250-8655                                                   |                     |  |
|                   | 2335       | Center    | Sec 6         | Statewide                                                 | 1        | Mrugala                                     | 8862             | Camb           | 1969           |                     | 800-1000<br>3700-4100<br>5275-8862                         |                     |  |
| 607               | 2246       | Center    | Sec 7         | Management Control                                        | 1        | Sell                                        | 9031             | Camb           | 1968           |                     | 70-9030                                                    | MI(s)               |  |
| 604               | 2247       | Center    | Sec 8         | Tri-State                                                 | 1        | Tritten                                     | 6418             | Sil            | 1968           |                     | 490-800<br>2100-2800<br>3400-3600<br>4300-6350<br>100-2020 |                     |  |
| 699               | 3001       | Fairfield | Sec 6         | Kaiser                                                    | 1        | Showalter                                   | 6000             | Sil            | 1973           |                     | 3260-6000                                                  |                     |  |
| 623               | 2316       | Hanover   | Sec 9         | Buttes                                                    | 1        | Humphrey                                    | 5959             | Sil            | 1969           |                     | 420-5959                                                   | MI(s)               |  |
| 648               | 2366       | Hanover   | Sec 12        | Management Control                                        | 3        | Murray                                      | 10,242           | Camb           | 1970           |                     | 500-10,242                                                 |                     |  |
| 593               | 2154       | Hanover   | Sec 22        | Quaker                                                    | 1        | Gruber                                      | 6088             | Sil            | 1968           |                     | 770-980                                                    |                     |  |
| 592               | 2168       | Knox      | Sec 12        | East Ohio                                                 | 1        | Denny                                       | 8295             | Camb           | 1968           |                     | 3740-6088                                                  | MI(s)               |  |
| 350               | 3134       | Knox      | Sec 13        | East Ohio                                                 | 2        | Wafler                                      | 3571             | Dev            | 1951           |                     | 8245-8295 C                                                |                     |  |
| 600               | 2279       | Knox      | Sec 17        | Tri-State                                                 | 1        | Hazen                                       | 5435             | Sil            | 1969           |                     | 2670-3571<br>130-2530                                      |                     |  |
| 624               | 2338       | Knox      | Sec 20        | Tri-State                                                 | 4        | Bandy                                       | 5497             | Sil            | 1969           |                     | 3720-5410                                                  |                     |  |
| 164               | 3136       | Knox      | Sec 22        | East Ohio                                                 | 1        | Barnett-Robinson                            | 3680             | Dev            | 1945           |                     | 600-900                                                    | MI(s)               |  |
| 165               | 3212       | Knox      | Sec 23        | Obermiller                                                | 1        | Gobbrath                                    | 3568             | Dev            | 1945           |                     | 3400-3600                                                  |                     |  |
| 160               | 3177       | Knox      | Sec 24        | Upham                                                     | 1        | Randall                                     | 3590             | Dev            | 1945           |                     | 5150-5496                                                  |                     |  |
| 677               | 2818       | Knox      | Sec 27        | Management Control                                        | 1        | Humeniuk                                    | 8451             | Camb           | 1972           |                     | 2960-3680                                                  |                     |  |
| 670               | 2633       | Knox      | Sec 28        | Management Control                                        | 1        | Johnson                                     | 8301             | Camb           | 1972           |                     | 3487-3566<br>3200-3380<br>NP                               |                     |  |
| 665               | 2580       | Knox      | Sec 33        | Management Control                                        | 1        | Hoffman                                     | 8288             | Camb           | 1971           |                     | 500-1720<br>3310-5530<br>6790-8270                         | MI(s)               |  |
| 175               | 3174       | Knox      | Sec 34        | Sill                                                      | 1        | Humphrey                                    | 5582             | Sil            | 1946           |                     | 0-8287                                                     |                     |  |
| 671               | 2643       | Knox      | Sec 34        | Management Control                                        | 1        | Humphrey                                    | 8462             | Camb           | 1971           |                     | 5705-5582<br>620-800<br>3490-8460                          |                     |  |

# COSHOCTON COUNTY

5

| Permit no.                    | Sample no. | Township   | Land division | Operator                     | Well no. | Lease name                        | Total depth (ft) | System reached | Date completed | Geophy. logs | Information on file                                          | Missing interval(s) |
|-------------------------------|------------|------------|---------------|------------------------------|----------|-----------------------------------|------------------|----------------|----------------|--------------|--------------------------------------------------------------|---------------------|
| COLUMBIANA COUNTY (continued) |            |            |               |                              |          |                                   |                  |                |                |              |                                                              |                     |
| 626                           | 2331       | Madison    | Sec 15        | Galey                        | 1        | Gilson                            | 10,208           | Camb           | 1969           | x            | 20-80<br>570-1530<br>4100-4905<br>5634-6630<br>8520-10,197   |                     |
| 668                           | 2699       | Madison    | Sec 30        | Occidental                   | 1        | Williams                          | 9952             | Camb           | 1972           | x            | 0-380<br>1120-1900<br>2720-3360<br>5060-5650<br>6450-9950    |                     |
| 656                           | 2411       | Salem      | Sec 31        | Statewide Management Control | 1        | Hawkins                           | 8900             | Camb           | 1970           | x            | 700-8900                                                     |                     |
| 658                           | 2504       | West       | Sec 27        |                              | 1        | Granger                           | 5736             | Sil            | 1971           | x            | 10-1710<br>2900-5735                                         |                     |
| COSHOCTON COUNTY              |            |            |               |                              |          |                                   |                  |                |                |              |                                                              |                     |
| 2139                          | 2953       | Adams      | Sec 2         | Columbia Gas                 | 11354    | Lahmers                           | 4517             | Sil            | 1973           | x            | 0-4516                                                       | MI(s)               |
| 2101                          | 2828       | Bedford    | Sec 5         | Cannon                       | 1-A      | Patterson                         | 3293             | Sil            | 1972           |              | 2135-3293                                                    |                     |
| 2282                          | 3087       | Bedford    | Sec 14        | Hoover & Shafer              | 1        | Haines                            | 3526             | Sil            | 1974           | x            | NP                                                           |                     |
| 1995                          | 2319       | Crawford   | Sec 16        | Phillips                     | 1        | Brently                           | 6471             | Camb           | 1969           | x            | 100-130                                                      |                     |
| 2177                          | 2957       | Crawford   | Sec 17        | Worthington                  | 1        | Herman                            | 6700             | Camb           | 1973           | x            | 1000-6470<br>80-6700                                         |                     |
| 2469                          | 3254       | Franklin   | 2Q            | Redman                       | 1        | Ross                              | 3974             | Sil            | 1974           |              | 510-3920                                                     | MI(s)               |
| 2517                          | 3272       | Franklin   | 2Q            | Worthington                  | 1        | Miskimens & Frase                 | 4014             | Sil            | 1974           | x            | NP                                                           |                     |
| 2104                          | 2842       | Franklin   | 3Q            | Ohio Petroleum               | 1        | Columbus & Southern Ohio Electric | 3961             | Sil            | 1972           |              | NP                                                           |                     |
| 1972                          | 2288       | Franklin   | 3Q            | Petroleum Energy             | 1        | Tumblin                           | 3856             | Sil            | 1969           | x            | 0-794                                                        |                     |
| 2053                          | 2519       | Jefferson  | Lot 1, 4Q     | Tatum                        | 1        | Lee                               | 6970             | PC             | 1971           | x            | 2652-3777<br>530-1040<br>1470-2770<br>3140-4890<br>4900-6970 |                     |
| 2189                          | 3000       | Jefferson  | Lot 18, 4Q    | Hamblin                      | 1        | Allen                             | 3292             | Sil            | 1973           |              | NP                                                           |                     |
| 2131                          | 2896       | Keene      | Lot 15, 4Q    | Management Control           | 1        | Wilson-Hunter                     | 6239             | Camb           | 1972           | x            | 100-6200                                                     |                     |
| 2130                          | 2922       | Keene      | Sec 8         | Columbia Gas                 | 11299    | Wood                              | 3994             | Sil            | 1973           | x            | NP                                                           |                     |
| 2164                          | 2931       | Lafayette  | Lot 3, 4Q     | Columbia Gas                 | 11372    | Porteus                           | 4375             | Sil            | 1973           | x            | 2620-4300                                                    | MI(s)               |
| 2168                          | 2932       | Mill Creek | Lot 5         | Columbia Gas                 | 11378    | Karr                              | 4000             | Sil            | 1973           | x            | 2395-4000                                                    | MI(s)               |
| 2308                          | 3091       | Monroe     | Sec 19        | Mason                        | 1        | Borden                            | 3647             | Sil            | 1974           | x            | NP                                                           |                     |
| 2182                          | 2986       | New Castle | Lot 1, 1Q     | Jaddoi                       | 4        | Muskingum Watershed Conservancy   | 3272             | Sil            | 1973           | x            | NP                                                           |                     |
| 2061                          | 2566       | New Castle | Lot 18, 1Q    | Davis                        | 1        | Rahn                              | 3145             | Sil            | 1971           |              | 1970-3030                                                    |                     |
| 2095                          | 2790       | New Castle | 3Q            | Cote                         | 1        | Richard                           | 3285             | Sil            | 1972           |              | 760-2255<br>2855-3285                                        |                     |
| 2281                          | 3103       | Perry      | Sec 12        | Callander & Kimbrel          | 1        | Scott                             | 3369             | Sil            | 1974           | x            | 20-3359                                                      |                     |
| 1880                          | 2096       | Perry      | Sec 15        | Preston                      | 8        | Van Winkle                        | 3162             | Sil            |                |              | 27-3010                                                      | MI                  |
| 1867                          | 2059       | Pike       | Sec 3         | Lynn                         | 1        | McCausland                        | 3180             | Sil            | 1967           |              | 705-3168                                                     | MI(s)               |
| 2360                          | 3142       | Pike       | Sec 8         | Hoover                       | 1        | Moore                             | 3287             | Sil            | 1974           |              | NP                                                           |                     |
| 1967                          | 2344       | Pike       | Sec 22        | Shrider                      | 2        | Kilpatrick                        | 3221             | Sil            | 1969           |              | 80-3221                                                      | MI(s)               |
| 2370                          | 3099       | Tiverton   | Sec 18        | Patten                       | 1        | Ridenbaugh                        | 3361             | Sil            | 1974           | x            | NP                                                           |                     |
| 2059                          | 2553       | Tuscarawas | 2Q            | James                        | 1        | Dreher                            | 3803             | Sil            | 1971           | x            | 120-3793                                                     | MI(s)               |
| 2183                          | 2990       | Virginia   | Lot 21, 4Q    | Gallagher                    | 1        | McLeod                            | 6102             | Camb           | 1973           | x            | 0-6098                                                       | MI(s)               |
| 2144                          | 2927       | Virginia   | Lot 23, 4Q    | Gallagher                    | 1        | Hunt                              | 6090             | Camb           | 1973           | x            | 0-2270                                                       |                     |
| 2268                          | 3046       | Virginia   | Lot 24, 4Q    | Gallagher                    | 1        | Vickers                           | 6011             | Camb           | 1974           |              | 4530-6090<br>5967-5986 C                                     |                     |
| 2460                          | 3252       | Virginia   | Sec 10        | Redman                       | 1-B      | Peabody                           | 6306             | Camb           | 1974           |              | 1100-6290                                                    |                     |
| 1902                          | 2169       | Virginia   | Sec 25        | Waverly                      | 1        | Gorby                             | 3660             | Sil            | 1968           |              | 2637-3660                                                    | MI                  |
| 2193                          | 2985       | Washington | Lot 39        | Shelter Funds                | 3        | Adams                             | 3494             | Sil            | 1973           |              | 180-1200                                                     | MI                  |
| 1908                          | 2183       | Washington | Sec 6         | Shrider                      | 1        | Steffee                           | 3360             | Sil            | 1968           |              | 286-3360                                                     | MI(s)               |
| 2145                          | 2921       | White Eyes | Lot 11, 1Q    | Columbia Gas                 | 11352    | Opportunity Ranch                 | 6628             | Camb           | 1973           | x            | NP                                                           |                     |
| 2229                          | 3055       | White Eyes | Lot 22, 1Q    | Bethel                       | 3        | Layman                            | 988              | Miss           | 1973           |              | NP                                                           |                     |

## SUBSURFACE INFORMATION CATALOG

| Permit no.      | Sample no. | Township             | Land division    | Operator                            | Well no.                 | Lease name                          | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|-----------------|------------|----------------------|------------------|-------------------------------------|--------------------------|-------------------------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                 |            |                      |                  |                                     |                          |                                     |                  |                |                | Geophys.            | Sample range (ft) |                     |
| CRAWFORD COUNTY |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   |                     |
| 5               | 2475       | Bucyrus              | Sec 16           | Plains Exploration                  | S-1                      | Depser                              | 2881             | Camb           | 1962           | x                   | 25-285 W          | MI(s)               |
|                 | 1122       | Bucyrus              | Sec 22           |                                     | 1                        | Blicke                              | 313              | Sil            | 1965           | x                   | 130-2881          |                     |
|                 | 2489       | Chatfield            | Sec 30           |                                     | CP-6                     | Kalb                                | 3400             | Camb           | 1967           | x                   | 75-350 W          |                     |
|                 | 2676       | Dallas               | Sec 4            |                                     | 1                        | Purvis                              | 3400             | Camb           | 1968           | x                   | 55-313 W          |                     |
| 46              | 2258       | Jefferson            | Sec 13           | Sun                                 | 1                        | App                                 | 3403             | Camb           | 1967           | x                   | 2900-3400         | MI(s)               |
| 53              | 2079       | Jefferson            | Sec 18           | Garfield McClure                    | 2                        | Philp                               | 2915             | Camb           | 1967           | x                   | 2660-3332         |                     |
| 72              | 2097       | Liberty              | Sec 19           |                                     | 1                        | Crall                               | 330              | Sil            | 1968           | x                   | 2155-2915         |                     |
| 2488            | Texas      | Sec 25               | S-12             |                                     | Culver                   | 5801                                | Camb             | 1974           | x              | 30-330 W            |                   |                     |
| CUVAHOGA COUNTY |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   |                     |
| 821             | 3097       | Brooklyn             | Lot 85           | Jones & Laughlin International Salt | 1                        | Jones & Laughlin International Salt | 5801             | Camb           | 1974           | x                   | 700-5801          | MI(s)               |
| 267             | 737        | Cleveland(city)      | Cleveland Harbor |                                     | 2                        |                                     | 2029             | Sil            | 1957           | x                   | 970-2027          |                     |
| 288             | 3155       | Independence         | Lot 18           |                                     | 1                        | Milber                              | 3021             | Sil            | 1939           | x                   | NP                |                     |
| 200             | 2561       | North Koyalton(vill) | Sec 15           |                                     | 1                        | Sweeney                             | 3146             | Sil            | 1971           | x                   | 2972-3146         |                     |
| 107             | 3231       | Parma                | Lot 33           | Hamm Oxford Wooster Dlg.            | 1                        | Schridt                             | 3242             | Sil            | 1948           | x                   | 2999-3242         | MI(s)               |
| 95              | 3179       | Solon                | Lot 4, Tr 1      | Rinaldi East Ohio                   | 1                        | Rinaldi                             | 3896             | Sil            | 1947           | x                   | 3725-3885         |                     |
| 78              | 3209       | Westlake(city)       | Lot 23           |                                     | 1                        | Oring-May                           | 2563             | Sil            | 1942           | x                   | 2205-2541         |                     |
| DARKE COUNTY    |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   |                     |
| 64              | 2688       | Mississinawa         | Sec 11           | An-Car                              | SW-7                     |                                     | 340              | Ord            |                |                     | 90-340 W          | MI(s)               |
|                 | 2692       | Neave                | Sec 21           |                                     | SW-19                    |                                     | 400              | Ord            |                |                     | 40-400 W          |                     |
|                 | 2691       | Patterson            | Sec 31           |                                     | SW-10                    |                                     | 230              | Ord            |                |                     | 90-230 W          |                     |
|                 | 2689       | Richland             | Sec 24           |                                     | SW-8                     |                                     | 220              | Ord            |                |                     | 55-220 W          |                     |
| 64              | 2690       | Washington           | Sec 9            | An-Car                              | SW-9                     |                                     | 240              | Ord            |                |                     | 90-240 W          | MI(s)               |
|                 | 2862       | Washington           | Sec 14           |                                     | 1                        | Martin                              | 1729             | Camb           | 1972           | x                   | 105-1716          |                     |
|                 | 2809       | Adams                | Sec 18           |                                     | 1                        | Higbee                              | 2612             | Camb           | 1972           | x                   | 220-2600          |                     |
|                 | 2447       | Highland             | Sec 3            |                                     | M-32                     | Rohn                                | 480              | Sil            | 1972           | x                   | 90-480 W          |                     |
| 38              | 2797       | Washington           | Sec 5            | Sohio                               | 1                        | Burgbacher                          | 2612             | Camb           | 1972           | x                   | 120-2612          | MI(s)               |
| DELAWARE COUNTY |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   |                     |
| 214             | 2156       | Concord              | Lot 37, 2Q       | Hampton Brasel Federal              | 1                        | Dilger, Thomas, Watts               | 2467             | Camb           | 1965           | x                   | 10-2467           | MI(s)               |
| 287             | 2414       | Harlem               | Lot 6, 1Q        |                                     | 1                        | Piper                               | 3446             | Camb           | 1970           | x                   | 2692-3424         |                     |
| 288             | 2562       | Harlem               | Lot 7, 1Q        |                                     | 1                        | Bachman                             | 3554             | Camb           | 1971           | x                   | 0-3553            |                     |
| 8               | 2684       | Liberty              | Lot 2, 1Q        |                                     | Steamtown Minnesota-OHio | CP-18                               | State of Ohio    | 395            | Sil            |                     |                   |                     |
|                 | 2682       | Oxford               | Lot 18, 2Q       | CP-14                               |                          |                                     | 360              | Sil            |                |                     | 26-360 W          |                     |
|                 | 969        | Oxford               | Lot 36, 3Q       | 1                                   |                          | Smith                               | 3635             | Camb           | 1961           | x                   | 2642-3622         |                     |
|                 | 1850       | Porter               | Lot 6, 1Q        | 1                                   |                          | Gregory                             | 4700             | PC             | 1965           | x                   | 3500-4700         |                     |
| 270             | 2680       | Radnor               | Lot 6, 1Q        | Ludwig Pan American                 | CP-9                     |                                     | 350              | Sil            |                |                     | 0-350 W           | MI(s)               |
| 279             | 2683       | Scioto               | VMSL 5868        |                                     | CP-17                    |                                     | 400              | Sil            |                |                     | 0-400 W           |                     |
|                 | 2681       | Thompson             |                  |                                     | CP-13                    | Kuba                                | 350              | Sil            |                |                     | 13-350 W          |                     |
|                 | 2215       | Trenton              | Lot 10, 2Q       |                                     | 1                        | Longshore                           | 3475             | Camb           | 1968           | x                   | 700-3460          |                     |
|                 | 1206       | Trenton              | Sec 8            | 1                                   | Reppart                  | 3710                                | Camb             | 1963           | x              | 750-960             |                   |                     |
| ERIE COUNTY     |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   |                     |
| 32              | 2257       | Berlin               | Lot 9, 2Q        | Pennzoil Sun                        | 1                        | Neiding                             | 3955             | Camb           | 1968           | x                   | 150-3950          | MI(s)               |
| 29              | 2254       | Florence             | Lot 62           |                                     | 1                        | Hunter-Niemeth                      | 3893             | Camb           | 1967           | x                   | 0-3890            |                     |
| 27              | 2385       | Florence             | Lot 74           |                                     | 1                        | Hunter                              | 3938             | Camb           | 1967           | x                   | 10-3937           |                     |
| 17              | 2255       | Florence             | Lot 86           |                                     | Vaught Sun               | 1                                   | Wickens          | 3950           | Camb           | 1966                | x                 |                     |
|                 | 14         | 2383                 | Florence         | Lot 87                              |                          | 1                                   | Knight           | 3910           | Camb           | 1966                | x                 | 410-3950            |
|                 | 19         | 2379                 | Florence         | Lot 97                              |                          | 1                                   | Herman           | 4466           | PC             | 1967                | x                 | 500-3910            |
|                 |            |                      |                  |                                     |                          |                                     |                  |                |                |                     |                   | 3770-3874 C         |
|                 |            |                      |                  |                                     |                          |                                     |                  |                |                |                     | 200-4466          | MI(s)               |
|                 |            |                      |                  |                                     |                          |                                     |                  |                |                |                     | 3880-3940 C       |                     |
|                 |            |                      |                  |                                     |                          |                                     |                  |                |                |                     | 4405-4466 C       |                     |

1

| Permit no.              | Sample no. | Township         | Land division       | Operator            | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Geophysics logs | Information on file | Missing interval(s) |
|-------------------------|------------|------------------|---------------------|---------------------|----------|-----------------------|------------------|----------------|----------------|-----------------|---------------------|---------------------|
| ERIE COUNTY (continued) |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 12                      | 2256       | Florence         | Lot 97              | Sun                 | 1        | Schlechter            | 3970             | Camb           | 1966           | x               | 40-3970 NP          |                     |
| 63                      | 3098       | Florence Perkins | Lot 97              | Sun Fenix & Scisson | 2        | Schlechter            | 4001             | Camb           | 1974           | x               | 0-600               |                     |
|                         | 2342       |                  |                     |                     | 1        | NASA test well        | 1831             | Ord            | 1970           | x               | 600-1300 C          |                     |
| 34                      | 2334       | Vermilion        | Lot 11, Tr 2        | E & W               | 1        | Haufl-Miller-Novy     | 3852             | Camb           | 1969           | x               | 0-3852              | MI(s)               |
| FAIRFIELD COUNTY        |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 465                     | 2101       | Pleasant         | Sec 36              | Hunting             | 2-A      | Raab                  | 4345             | Camb           | 1967           | x               | 1728-4345           | MI(s)               |
| 538                     | 3269       | Richland         | Sec 27              | Kentucky Dig.       | 1        | Bigham                | 5094             | Camb           | 1974           | x               | NP                  | MI                  |
| 444                     | 3035       | Rush Creek       | Sec 8               | Hands               | 1        | Thomas                | 4566             | Camb           | 1966           | x               | 3168-4565           | MI(s)               |
| 468                     | 2348       | Rush Creek       | Sec 15              | Mosier              | 2        | Sharp                 | 2610             | Sil            | 1969           | x               | 0-2608              | MI(s)               |
| 522                     | 3053       | Rush Creek       | Sec 15              | Kentucky Dig.       | 1        | Thomas                | 4807             | Camb           | 1974           | x               | NP                  |                     |
| 508                     | 2885       | Rush Creek       | Sec 28              | Kentucky Dig.       | 6        | Moyer                 | 2510             | Sil            | 1972           | x               | 2496-2510 C         | MI(s)               |
| 441                     | 2159       | Walnut           | Sec 14              | Lynn                | 1        | Durban                | 4329             | Camb           | 1968           | x               | 1138-4315           | MI(s)               |
| 543                     | 3273       | Walnut           | Sec 28S             | Logan               | 1        | Hite                  | 4082             | Camb           | 1974           | x               | NP                  |                     |
| FAYETTE COUNTY          |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 8                       | 3040       | Marion           | VMSL 6475           | Ephraim             | 1        | Rowland               | 2204             | Camb           | 1973           | x               | 330-2204            | MI(s)               |
|                         | 2674       | Marion           |                     |                     | CP-35    |                       | 285              | Sil            |                |                 | 190-285 W           |                     |
|                         | 2673       | Paint            | VMSL 6538           |                     |          |                       | 250              | Sil            |                |                 | 130-250 W           |                     |
| FRANKLIN COUNTY         |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
|                         | 2782       | Columbus(city)   | NA                  | Columbus(city)      | 1-67     | American Aggregates   | 145              | Sil            |                |                 | 63-145 C            |                     |
|                         | 2780       | Columbus(city)   | NA                  | Columbus(city)      | 2-67     | American Aggregates   | 173              | Sil            |                |                 | 0-173 C             |                     |
|                         | 2781       | Columbus(city)   | NA                  | Columbus(city)      | 3-67     | American Aggregates   | 133              | Sil            |                |                 | 0-133 C             |                     |
|                         | 2669       | Prairie          |                     |                     | CP-26    |                       | 340              | Sil            |                |                 | 135-340 W           |                     |
| FULTON COUNTY           |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 39                      | 2237       | Chesterfield     | Sec 27              | Loxex               | 1        | Reckner               | 2931             | Ord            | 1968           | x               | 1500-2895           | MI(s)               |
| 41                      | 2236       | Chesterfield     | Sec 34              | Loxex               | 1        | Willenhan             | 2950             | Ord?           | 1968           | x               | 1500-2950           | MI(s)               |
|                         | 2590       | German           | Sec 32              |                     | 1        | La Choy Food Products | 1180             | Sil            |                |                 | 0-1180 W            |                     |
| 14                      | 806        | Gorham           | Sec 17              | McClure             | 1        | Thomas                | 3016             | Ord            | 1959           | x               | 220-3010            | MI(s)               |
| 51                      | 2637       | Swan Creek       | Sec 17              | Houseknecht         | 1        | Zielinski             | 3000             | Camb           | 1971           | x               | 60-3000             | MI(s)               |
| 49                      | 2341       | Swan Creek       | Sec 27              | Liberty             | 1        | Storeholder           | 3700             | PC             | 1970           | x               | 220-3700            |                     |
| GALLIA COUNTY           |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 52                      | 2398       | Addison          | Sec 14              | Cody                | 1        | Sommerville           | 1826             | Miss           | 1944           |                 | 1125-1824           |                     |
| 55                      | 2399       | Greenfield       | Sec 18              | Pfeiffer            | 14       | Cambria Clay Products | 3057             | Sil            | 1944           |                 | 0-3057              |                     |
| 149                     | 2410       | Harrison         | Sec 16              | Earl                | 1        | Haskins               | 4072             | Sil            | 1970           | x               | 1008-3535           | MI                  |
| 150                     | 2396       | Harrison         | Sec 30              | Earl                | 1        | Coleman               | 3791             | Sil            | 1971           | x               | 0-2746              | MI(s)               |
| 38                      | 2400       | Morgan           | Sec 23              | Ohio Fuel           | 3        | Logue                 | 1555             | Miss           | 1943           |                 | 20-992              |                     |
| 155                     | 2611       | Perry            | Sec 3               | Quaker              | 1-0      | Dotson                | 1345             | Miss           | 1971           | x               | 55-1342             | MI(s)               |
| 148                     | 2609       | Perry            | Sec 11              | Quaker              | 1-0      | Cook                  | 3556             | Sil            | 1970           | x               | 1200-3505           | MI(s)               |
| 146                     | 2610       | Perry            | Sec 33              | Quaker              | 1        | Carter                | 3549             | Sil            | 1970           | x               | 1291-1511           |                     |
|                         |            |                  |                     |                     |          |                       |                  |                |                |                 | 2400-3513           |                     |
| GEAUGA COUNTY           |            |                  |                     |                     |          |                       |                  |                |                |                 |                     |                     |
| 34                      | 2772       | Auburn           | Lot 1, Sec 3, Tr 1  | Tri-State           | 1        | Dietz                 | 4040             | Sil            | 1972           | x               | 2180-4040           | MI(s)               |
| 26                      | 2627       | Auburn           | Lot 2, Sec 3, Tr 1  | Quaker              | 1        | Timmons               | 4110             | Sil            | 1971           | x               | 0-4110              | MI(s)               |
| 39                      | 2791       | Auburn           | Lot 6, Sec 3, Tr 1  | Quaker              | 2-0      | Timmons               | 4065             | Sil            | 1972           | x               | 100-500             |                     |
|                         |            |                  |                     |                     |          |                       |                  |                |                |                 | 2170-4060           |                     |
| 49                      | 2858       | Auburn           | Lot 1, Sec 4, Tr 1  | Quaker              | 1-0      | Franks                | 4080             | Sil            | 1972           | x               | 100-480             |                     |
|                         |            |                  |                     |                     |          |                       |                  |                |                |                 | 2170-4070           |                     |
| 54                      | 2859       | Auburn           | Lot 6, Sec 4, Tr 1  | Quaker              | 2-0      | Franks                | 4072             | Sil            | 1972           | x               | 250-480             |                     |
|                         |            |                  |                     |                     |          |                       |                  |                |                |                 | 2180-4070           |                     |
| 56                      | 3076       | Auburn           | Lot 7, Sec 2, Tr 2  | Lenhart & Bennett   | 1        | Clemens               | 4122             | Sil            | 1973           | x               | NP                  | MI(s)               |
| 122                     | 3082       | Auburn           | Lot 10, Sec 3, Tr 2 | American National   | 1        | Watson                | 4175             | Sil            | 1974           | x               | NP                  |                     |
| 124                     | 3081       | Auburn           | Lot 6, Tr 3         | American National   | 1        | Vroman                | 4104             | Sil            | 1974           | x               | 2250-4090           |                     |



## SUBSURFACE INFORMATION CATALOG

| Permit no.                | Sample no. | Township    | Land division   | Operator           | Well no. | Lease name      | Total depth (ft) | System reached | Date completed | Information on file |                                 | Missing interval(s) |
|---------------------------|------------|-------------|-----------------|--------------------|----------|-----------------|------------------|----------------|----------------|---------------------|---------------------------------|---------------------|
|                           |            |             |                 |                    |          |                 |                  |                |                | Geophys. logs       | Sample range (ft)               |                     |
| GEAUGA COUNTY (continued) |            |             |                 |                    |          |                 |                  |                |                |                     |                                 |                     |
| 101                       | 3083       | Auburn      | Lot 12, Tr 3    | American National  | 1        | Sidik           | 4050             | Sil            | 1974           |                     | NP                              |                     |
| 105                       | 3075       | Auburn      | Lot 21, Tr 3    | American National  | 1        | Brown           | 4125             | Sil            | 1973           | x                   | NP                              |                     |
| 92                        | 3079       | Auburn      | Lot 28, Tr 3    | American National  | 1        | Vabel           | 4155             | Sil            | 1974           | x                   | NP                              |                     |
| 79                        | 3088       | Burton      | Lot 60          | Woodmac            | 1        | Hering          | 4007             | Sil            | 1973           | x                   | NP                              |                     |
| 89                        | 2994       | Clardion    | Lot 5           | Fortune            | 1        | Pentek          | 3931             | Sil            | 1973           | x                   | NP                              |                     |
| 25                        | 2634       | Middlefield | Lot 12          | Westrans           | 1        | Fritinger       | 3997             | Sil            | 1971           | x                   | 2220-3970                       | MI(s)               |
| 24                        | 2635       | Middlefield | Lot 42          | Westrans           | 1        | Yoder           | 4172             | Sil            | 1971           | x                   | 2340-4170                       | MI(s)               |
| 20                        | 2392       | Montville   | Sec 6           | TWM                | 1        | Adorni          | 3768             | Sil            | 1970           | x                   | 10-3768                         | MI(s)               |
| 104                       | 3037       | Munson      | Sec 2, East Div | Best               | 6        | Bass Lake       | 3959             | Sil            | 1973           | x                   | 2054-3959                       | MI(s)               |
| 44                        | 3093       | Newbury     | Lot 4, Tr 3     | American National  | 1        | Jones           | 4098             | Sil            | 1974           | x                   | NP                              |                     |
| 36                        | 2793       | Newbury     | Lot 28, Tr 3    | Quaker             | 1-0      | Weisz           | 4072             | Sil            | 1972           | x                   | 0-500<br>2180-3600<br>3830-4060 |                     |
| 50                        | 3078       | Newbury     | Lot 29, Tr 3    | Quaker             | 1-0      | Pizzina         | 4077             | Sil            | 1972           | x                   | NP                              |                     |
| 27                        | 2762       | Newbury     | Lot 38, Tr 3    | Quaker             | 1-0      | Oravec          | 4125             | Sil            | 1972           | x                   | 0-4125                          | MI(s)               |
| 37                        | 2795       | Newbury     | Lot 40, Tr 3    | Quaker             | 1-0      | Button          | 4050             | Sil            | 1972           | x                   | 100-460<br>2100-4050            |                     |
| 38                        | 2794       | Newbury     | Lot 41, Tr 3    | Quaker             | 1-0      | Frohning        | 4090             | Sil            | 1972           | x                   | 0-500<br>2250-4090              |                     |
| 35                        | 2792       | Newbury     | Lot 42, Tr 3    | Quaker             | 1-0      | Hostettler      | 4079             | Sil            | 1972           | x                   | 0-500<br>2150-4070              |                     |
| GUERNSEY COUNTY           |            |             |                 |                    |          |                 |                  |                |                |                     |                                 |                     |
| 1008                      | 2314       | Adams       | Sec 7           | Cushing & Bradshaw | 1        | Lucas-McFarland | 4840             | Sil            | 1969           | x                   | 510-4840                        | MI(s)               |
| 1440                      | 2571       | Cambridge   | 4Q              | Dever              | 2        | Ross            | 5230             | Sil            | 1971           | x                   | 520-5230                        | MI(s)               |
| 912                       | 2322       | Jackson     | Sec 17          | Pointer            | 1        | Rector          | 5132             | Sil            | 1969           | x                   | 510-5130                        | MI(s)               |
| 1627                      | 2934       | Knox        | Sec 6           | Shakespeare        | 1        | Warner          | 4820             | Sil            | 1972           | x                   | 3200-4820                       | MI(s)               |
| 1581                      | 2937       | Knox        | Sec 16          | Johnston           | 1        | Day             | 4766             | Sil            | 1973           | x                   | 1000-1400<br>3150-4710          |                     |
| 1444                      | 2521       | Liberty     | Sec 14          | Big Piney          | 1        | Nelson          | 5165             | Sil            | 1971           | x                   | 1200-5150                       | MI(s)               |
| 1468                      | 2843       | Liberty     | Sec 14          | DONOCO             | 1        | Robertson       | 5141             | Sil            | 1971           | x                   | 4870-5090                       |                     |
| 1470                      | 2579       | Liberty     | Sec 15          | DONOCO             | 1        | Warner          | 5153             | Sil            | 1971           | x                   | 1370-5120                       | MI(s)               |
| 1651                      | 3089       | Madison     | Sec 2           | Mammoth            | 1        | Wheeler         | 5770             | Sil            | 1973           | x                   | NP                              |                     |
| 917                       | 2281       | Madison     | Sec 8           | Westland           | 1        | Bennett         | 5854             | Sil            | 1969           | x                   | 600-5810                        | MI(s)               |
| 1791                      | 3239       | Millwood    | Sec 9W          | Seefried           | 1        | Rader           | 1365             | Miss           | 1974           |                     | 225-1365                        | MI(s)               |
| 1456                      | 2549       | Monroe      | Sec 13          | An-Car             | 1        | Fisher          | 5461             | Sil            | 1971           | x                   | 400-5460                        | MI(s)               |
| 1406                      | 2817       | Richland    | Sec 1           | East Ohio          | 1        | Booher          | 5579             | Sil            | 1971           | x                   | NP                              |                     |
| 971                       | 2300       | Richland    | Sec 10          | Southern Triangle  | 1        | Potts           | 5644             | Sil            | 1969           | x                   | 930-5640                        | MI(s)               |
| 969                       | 2303       | Richland    | Sec 12W         | Southern Triangle  | 1        | Beros           | 5747             | Sil            | 1969           | x                   | 3900-5585                       | MI(s)               |
| 979                       | 2390       | Richland    | Sec 20          | Southern Triangle  | 1        | Smith           | 5750             | Sil            | 1969           | x                   | 1000-1800<br>3830-5750          |                     |
| 823                       | 2131       | Spencer     | Sec 5           | Stocker & Sittler  | 1        | Keith           | 3584             | Dev            | 1968           | x                   | 0-3584                          | MI(s)               |
| 936                       | 2326       | Spencer     | Sec 10          | Liberty            | 2        | Bundy           | 5131             | Sil            | 1969           | x                   | 3420-4928                       | MI(s)               |
| 1608                      | 2901       | Spencer     | Sec 15          | Enterprise         | 1        | Jenkins-LePage  | 5286             | Sil            | 1972           | x                   | NP                              |                     |
| 1610                      | 2900       | Spencer     | Sec 16          | Enterprise         | 1        | Lestock-Howell  | 5100             | Sil            | 1972           | x                   | NP                              |                     |
| 922                       | 2299       | Spencer     | Sec 18          | Liberty            | 1        | Huhn & Bowen    | 5036             | Sil            | 1969           | x                   | 1110-4900                       | MI(s)               |
| 1631                      | 2897       | Spencer     | Sec 29          | Enterprise         | 1        | Martin          | 5736             | Sil            | 1972           | x                   | 1500-1650<br>3800-5235          |                     |
| 1579                      | 2837       | Spencer     | Sec 30          | Chief              | 1        | Scott           | 5100             | Sil            | 1972           | x                   | NP                              |                     |
| 1615                      | 2899       | Spencer     | Sec 32          | Enterprise         | 1        | Mullhone        | 5168             | Sil            | 1972           | x                   | 1200-1560<br>3450-5045          |                     |
| 980                       | 2746       | Valley      | Sec 4           | Southern Triangle  | 1        | Brown           | 5330             | Sil            | 1969           | x                   | 5100-5330                       |                     |
| 1685                      | 3042       | Valley      | Sec 9           | Viking             | 1        | Fibel           | 5641             | Sil            | 1974           | x                   | 3970-5540                       | MI(s)               |
| 1606                      | 2898       | Valley      | Sec 14          | Enterprise         | 1        | Bear-Moorhead   | 5180             | Sil            | 1972           | x                   | NP                              |                     |
| 911                       | 2266       | Valley      | Sec 14          | Garfield           | 1        | Watson          | 5164             | Sil            | 1969           | x                   | 2900-5140                       | MI(s)               |
| 1686                      | 2987       | Washington  | Sec 24          | Mammoth            | 1        | Patterson       | 5507             | Sil            | 1973           | x                   | NP                              |                     |
| 1033                      | 2367       | Westland    | 2Q              | Zenith             | 1        | Elliott         | 4862             | Sil            | 1969           | x                   | 600-4845                        | MI(s)               |

## HENRY COUNTY

9

| Permit no.                  | Sample no. | Township    | Land division | Operator            | Well no. | Lease name       | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|-----------------------------|------------|-------------|---------------|---------------------|----------|------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                             |            |             |               |                     |          |                  |                  |                |                | Geophy.s            | Sample range (ft) |                     |
| GUERNSEY COUNTY (continued) |            |             |               |                     |          |                  |                  |                |                |                     |                   |                     |
| 867                         | 2267       | Westland    | 3Q            | Garfield Ridge      | 1        | Lent Vessels     | 4918             | Sil            | 1968           | x                   | 500-3600          | MI(s)               |
| 881                         | 2239       | Westland    | 3Q            | Dever               | 1        | Watson Hayes     | 7390             | Camb           | 1969           | x                   | 4800-7390 NP      | MI(s)               |
| 906                         | 2269       | Westland    | 3Q            | Black River         | 1        |                  | 4952             | Sil            | 1968           | x                   | 1292-1473         |                     |
| 845                         | 2240       | Westland    | Sec 19        |                     |          |                  | 5017             | Sil            |                |                     | 3132-5012         |                     |
| 833                         | 2235       | Westland    | Sec 19        | Black River         | 1        | Marshall         | 5125             | Sil            | 1968           | x                   | 520-5120          | MI(s)               |
| 838                         | 2175       | Westland    | Sec 23        | Duchscherer         | 1        | Marlatt Booth    | 5104             | Sil            | 1968           | x                   | 269-5100          | MI(s)               |
| 1328                        | 2574       | Wheeling    | Sec 7         | Ponderosa           | 1        |                  | 4815             | Sil            | 1970           | x                   | 3100-3340         |                     |
| 844                         | 2241       | Wheeling    | Sec 19        | Black River         | 1        | Fieldson Baird   | 5225             | Sil            | 1968           | x                   | 4500-4815         | MI(s)               |
| 967                         | 2313       | Wills       | Sec 1NW       | James               | 1        |                  | 5774             | Sil            | 1969           | x                   | 510-5225          | MI(s)               |
|                             |            |             |               |                     |          |                  |                  |                |                |                     | 520-5770          |                     |
| HANCOCK COUNTY              |            |             |               |                     |          |                  |                  |                |                |                     |                   |                     |
|                             | 2463       | Allen       | Sec 18        |                     | P-4      | Ohio Parks       | 230              | Sil            |                |                     | 60-230 W          |                     |
|                             | 2418       | Amanda      | Sec 28        |                     | M-2      | Walton           | 220              | Sil            |                |                     | 13-220 W          |                     |
|                             | 2420       | Jackson     | Sec 29        |                     | M-4      | Nusser           | 320              | Sil            |                |                     | 20-320 W          |                     |
|                             | 2423       | Liberty     | Sec 16        |                     | M-7      | McCartney        | 330              | Sil            |                |                     | 22-330 W          |                     |
| 164                         | 2805       | Madison     | Sec 29        | Bruce               | 1        | Ruhl             | 1430             | Ord            | 1972           |                     | 36-1430           |                     |
| 155                         | 2824       | Orange      | Sec 4         | Brown               | 1        | Dray             | 1321             | Ord            | 1968           |                     | 45-1321           |                     |
|                             | 2425       | Orange      | Sec 17        |                     | M-9      | Anderson         | 280              | Sil            |                |                     | 6-280 W           |                     |
|                             | 2471       | Pleasant    | Sec 2         |                     | P-6      | Donhauser        | 420              | Sil            |                |                     | 80-420 W          |                     |
|                             | 2422       | Union       | Sec 24        |                     | M-6      | Augustine        | 320              | Sil            |                |                     | 0-320 W           |                     |
|                             | 2421       | Van Buren   | Sec 10        |                     | M-5      | Wilson           | 280              | Sil            |                |                     | 4-280 W           |                     |
|                             | 2461       | Washington  | Sec 19        |                     | P-2      | Cunningham       | 220              | Sil            |                |                     | 42-220 W          |                     |
|                             | 2460       | Washington  | Sec 36        |                     | P-1      | Swartz           | 220              | Sil            |                |                     | 50-220 W          |                     |
| HARDIN COUNTY               |            |             |               |                     |          |                  |                  |                |                |                     |                   |                     |
| 108                         | 2099       | Cessna      | Sec 26        | Teeters             | 1        | Stephens         | 1919             | Camb           | 1967           | x                   | 100-1861          | MI(s)               |
|                             | 2645       | Dudley      | VMSL 10818    |                     | CP-3     | Range            | 200              | Sil            |                |                     | 27-200 W          |                     |
|                             | 2484       | Goshen      | Sec 16        |                     | S-8      | Hamilton         | 330              | Sil            |                |                     | 41-330 W          |                     |
| 75                          | 2419       | Jackson     | Sec 7         | Humble              | M-3      | Forest           |                  |                | 1962           | x                   | 0-210 W           | MI(s)               |
|                             | 1119       | Liberty     | Sec 36        |                     | 1        | Marling          | 1985             | Camb           |                |                     | 73-1985           |                     |
|                             | 2646       | Lynn        | Sec 29        |                     | SW-6     |                  | 410              | Sil            |                |                     | 92-410 W          |                     |
|                             | 2644       | Marion      | Sec 29        |                     | CP-1     |                  | 325              | Sil            |                |                     | 0-325 W           |                     |
|                             | 2429       | Washington  | Sec 20        |                     | M-13     |                  | 220              | Sil            |                |                     | 40-220 W          |                     |
|                             | 2491       | Washington  | Sec 23        |                     | S-15     |                  | 250              | Sil            |                |                     | 18-250 W          |                     |
| HARRISON COUNTY             |            |             |               |                     |          |                  |                  |                |                |                     |                   |                     |
| 7                           | 3244       | Franklin    | Sec 10        | Lyons               | 1        | Patterson        | 5655             | Sil            | 1937           |                     | 5595-5634         | MI(s)               |
| 95                          | 1187       | Franklin    | Sec 10        | East Ohio Resource  | 1        | Shuss            | 5864             | Sil            | 1962           | x                   | 80-5860           |                     |
| 113                         | 2764       | Franklin    | Sec 15        |                     | 1        | Sproul           | 5877             | Sil            | 1972           | x                   | 1060-1460         |                     |
| 104                         | 2389       | Freeport    | Sec 24        | Amerada             | 1        | Bardall          | 6060             | Sil            | 1969           | x                   | 3935-5600         |                     |
| 103                         | 2287       | Green       | Sec 28S       | McCormick           | 1        | Birney           | 10,181           | Camb           | 1969           | x                   | 103-6060          | MI(s)               |
| 154                         | 2802       | Monroe      | Sec 17        | Clinton             | 1        | Edie             | 5601             | Sil            | 1972           | x                   | 1610-10,180       |                     |
| 101                         | 2095       | North       | Sec 7         |                     | 1        |                  |                  |                |                |                     | 80-119            |                     |
| 209                         | 3062       | Rumley      | Sec 14        | Pan American        | 1        | Luneman          | 6149             | Sil            | 1968           | x                   | 3680-5600         |                     |
| 107                         | 2413       | Short Creek | Sec 16        | Belden & Blake      | 1        | Ensley-Logan     | 6540             | Sil            | 1973           | x                   | 0-6149            |                     |
| 268                         | 3267       | Washington  | Sec 14        | Reliance Resource   | 3        | Anderson Ferrell | 3274             | Dev            | 1970           |                     | NP                |                     |
|                             |            |             |               |                     |          |                  | 5899             | Sil            | 1974           | x                   | 235-3274          | MI(s)               |
| 219                         | 3258       | Washington  | Sec 27        | Resource            | 1        | Figley           | 5907             | Sil            | 1974           | x                   | 0-900             |                     |
| 30                          | 3140       | Washington  | Sec 32        | East Ohio           | 1        | Phillips         | 5820             | Sil            | 1941           |                     | 900-1020          |                     |
|                             |            |             |               |                     |          |                  |                  |                |                |                     | 130-3480          |                     |
| HENRY COUNTY                |            |             |               |                     |          |                  |                  |                |                |                     |                   |                     |
|                             | 2450       | Barlow      | Sec 28        |                     | M-36     |                  | 265              | Sil            |                |                     | 76-265 W          |                     |
|                             | 2451       | Damascus    | Sec 32        |                     | M-37     | Miller Johnson   | 300              | Sil            |                |                     | 42-160 W          |                     |
| 36                          | 3016       | Harrison    | Sec 26        | Callander & Kimbrel | 1        | Hall             | 3480             | PC             | 1973           | x                   | 63-3480           | MI(s)               |

## SUBSURFACE INFORMATION CATALOG

| Permit no.               | Sample no.                           | Township                                               | Land division                               | Operator                                                               | Well no.                    | Lease name                                                      | Total depth (ft)                   | System reached                  | Date completed           | Geophys. logs   | Information on file                                   | Missing interval(s)   |
|--------------------------|--------------------------------------|--------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------|-----------------|-------------------------------------------------------|-----------------------|
| HENRY COUNTY (continued) |                                      |                                                        |                                             |                                                                        |                             |                                                                 |                                    |                                 |                          |                 |                                                       |                       |
| 30                       | 2369<br>2449<br>2448<br>2788<br>3015 | Marion<br>Marion<br>Pleasant<br>Richfield<br>Richfield | Sec 1<br>Sec 35<br>Sec 16<br>Sec 1<br>Sec 9 | Nahabedian & Fawcett<br><br>Callander & Kimbrel<br>Callander & Kimbrel | 1<br>M-35<br>M-34<br>1<br>1 | Brubaker<br>Hashbarger<br>Township trustees<br>Staub<br>Shepard | 1604<br>350<br>410<br>1802<br>1686 | Ord<br>Sil<br>Sil<br>Ord<br>Ord | 1970<br><br>1972<br>1973 | x<br><br>x<br>x | 0-1604<br>70-350 W<br>100-400 W<br>25-1631<br>45-1670 | MI<br><br>MI<br>MI(s) |
| HIGHLAND COUNTY          |                                      |                                                        |                                             |                                                                        |                             |                                                                 |                                    |                                 |                          |                 |                                                       |                       |
| 8                        | 2798                                 | Brush Creek                                            |                                             | Cominco                                                                | CA-59                       | Humphrey                                                        | 275                                | Sil                             | 1971                     |                 | 20-275 C                                              |                       |
| 9                        | 2799                                 | Brush Creek                                            |                                             | Cominco                                                                | CA-110                      | Humphrey                                                        | 313                                | Sil                             | 1971                     |                 | 20-313 C                                              |                       |
| 10                       | 2800                                 | Brush Creek                                            |                                             | Cominco                                                                | CA-111                      | Adams & Shoemaker                                               | 290                                | Sil                             | 1971                     |                 | 10-290 C                                              |                       |
| 7                        | 2628                                 | Fairfield                                              | VMSL 1568                                   | Ohio Valley                                                            | 1                           | Courtney                                                        | 3610                               | PC                              | 1972                     | x               | 447-3610                                              | MI(s)                 |
| 6                        | 2499<br>2675                         | Fairfield<br>Madison                                   |                                             | Cominco                                                                | CA-54<br>CP-8               | Swingley                                                        | 2351<br>250                        | Camb<br>Sil                     | 1970                     |                 | 24-2351 C<br>74-250 W                                 |                       |
| HOCKING COUNTY           |                                      |                                                        |                                             |                                                                        |                             |                                                                 |                                    |                                 |                          |                 |                                                       |                       |
| 1518                     | 2773                                 | Falls                                                  | Sec 2                                       | Kentucky Dig.                                                          | 4                           | Ucker                                                           | 2763                               | Sil                             | 1972                     | x               | 2704-2763                                             |                       |
| 1664                     | 3052                                 | Falls                                                  | Sec 3                                       | Kentucky Dig.                                                          | 4                           | Bartholomew                                                     | 4627                               | Camb                            | 1974                     | x               | NP                                                    |                       |
| 1617                     | 3022                                 | Green                                                  | Sec 1                                       | Quaker                                                                 | 20                          | U.S. Government                                                 | 3413                               | Sil                             | 1973                     | x               | 445-3358                                              |                       |
| 1564                     | 2992                                 | Green                                                  | Sec 7                                       | Quaker                                                                 | 19                          | U.S. Government                                                 | 3139                               | Sil                             | 1973                     | x               | NP                                                    |                       |
| 1534                     | 2856                                 | Green                                                  | Sec 12                                      | Waverly                                                                |                             | Hocking Valley Products                                         | 3148                               | Sil                             | 1972                     |                 | 53-985<br>2100-3148                                   |                       |
| 1488                     | 2583                                 | Green                                                  | Sec 29                                      | Orwig                                                                  | 1                           | Graham                                                          | 2859                               | Sil                             | 1971                     | x               | 1885-2842                                             | MI                    |
| 1342                     | 2076                                 | Marion                                                 | Sec 10                                      | Turnill                                                                | 1                           | Whitmer                                                         | 4516                               | Camb                            | 1968                     | x               | 0-4502                                                | MI                    |
| 1485                     | 2585                                 | Marion                                                 | Sec 20                                      | Clunwell                                                               | 1                           | McCune                                                          | 2691                               | Sil                             | 1971                     | x               | 0-2671                                                |                       |
| 1568                     | 2924                                 | Marion                                                 | Sec 25                                      | Kentucky Dig.                                                          | 1                           | Ruff                                                            | 2738                               | Sil                             | 1973                     | x               | 2666-2738                                             | MI(s)                 |
| 1525                     | 2806                                 | Marion                                                 | Sec 35                                      | Orwig                                                                  | 1                           | Kornmiller                                                      | 2761                               | Sil                             | 1972                     | x               | 20-2761                                               |                       |
| 1567                     | 2925                                 | Marion                                                 | Sec 35                                      | Kentucky Dig.                                                          | 2                           | Kuns                                                            | 2743                               | Sil                             | 1973                     | x               | 750-2698                                              | MI(s)                 |
| 1541                     | 2887                                 | Marion                                                 | Sec 36                                      | Kentucky Dig.                                                          | 1                           | Holcomb                                                         | 2730                               | Sil                             | 1972                     | x               | 2715-2723 C<br>2725-2729 C                            |                       |
| 1683                     | 3126                                 | Perry                                                  | Sec 27                                      | Deffenbaugh                                                            | 2                           | Stuhr                                                           | 3872                               | Camb                            | 1974                     | x               | NP                                                    |                       |
| 1693                     | 3251                                 | Starr                                                  | Sec 6                                       | Bell                                                                   | 6                           | Bell-Wolfe                                                      | 3258                               | Sil                             | 1974                     | x               | 219-1149                                              |                       |
| 1676                     | 3263                                 | Ward                                                   | Sec 4                                       | Quaker                                                                 | 4-0                         | Sunday Creek Coal                                               | 3661                               | Sil                             | 1974                     | x               | NP                                                    |                       |
| 1675                     | 3072                                 | Ward                                                   | Sec 16                                      | Quaker                                                                 | 3-0                         | Sunday Creek Coal                                               | 3520                               | Sil                             | 1974                     | x               | NP                                                    | MI(s)                 |
| 1674                     | 3066                                 | Ward                                                   | Sec 22                                      | Quaker                                                                 | 2-0                         | Sunday Creek Coal                                               | 3516                               | Sil                             | 1974                     | x               | 2340-3498                                             | MI(s)                 |
| 1381                     | 2270                                 | Ward                                                   | Sec 26                                      | Poston                                                                 | 1                           | Tussing & Hawk                                                  | 3322                               | Sil                             | 1969                     | x               | 457-3312                                              |                       |
| 1733                     | 3262                                 | Ward                                                   | Sec 29                                      | Quaker                                                                 | 7-0                         | Sunday Creek Coal                                               | 3453                               | Sil                             | 1974                     | x               | NP                                                    |                       |
| 1542                     | 2904                                 | Ward                                                   | Sec 32                                      | Quaker                                                                 | 15                          | U.S. Government                                                 | 3308                               | Sil                             | 1972                     | x               | 2200-3308                                             |                       |
| 1539                     | 3023                                 | Ward                                                   | Sec 32                                      | Quaker                                                                 | 16                          | U.S. Government                                                 | 3441                               | Sil                             | 1973                     | x               | 1051-1246<br>2300-3410<br>1995-2915                   |                       |
| 1483                     | 2593                                 | Washington                                             | Sec 1                                       | Preston                                                                | 1                           | Leaman                                                          | 2921                               | Sil                             | 1971                     | x               | NP                                                    | MI(s)                 |
| 1644                     | 3071                                 | Washington                                             | Sec 19                                      | Quaker                                                                 | 7-0                         | Hull                                                            | 2731                               | Sil                             | 1973                     | x               | NP                                                    |                       |
| 1649                     | 3068                                 | Washington                                             | Sec 19                                      | Quaker                                                                 | 8-0                         | Hull                                                            | 2676                               | Sil                             | 1973                     | x               | NP                                                    |                       |
| 1679                     | 3043                                 | Washington                                             | Sec 29                                      | Quaker                                                                 | 1-0                         | Southern Ohio Enterprises                                       | 2848                               | Sil                             | 1974                     | x               | 100-2841                                              |                       |
| 1530                     | 2857                                 | Washington                                             | Sec 30                                      | Quaker                                                                 | 1-0                         | Hull                                                            | 2724                               | Sil                             | 1972                     | x               | 0-2724                                                | MI(s)                 |
| 1628                     | 3024                                 | Washington                                             | Sec 30                                      | Quaker                                                                 | 6-0                         | Hull                                                            | 2784                               | Sil                             | 1973                     | x               | 1873-2782                                             | MI                    |
| 1684                     | 3069                                 | Washington                                             | Sec 30                                      | Quaker                                                                 | 9-0                         | Hull                                                            | 2675                               | Sil                             | 1974                     | x               | NP                                                    |                       |
| HOLMES COUNTY            |                                      |                                                        |                                             |                                                                        |                             |                                                                 |                                    |                                 |                          |                 |                                                       |                       |
| 1518                     | 2819                                 | Berlin                                                 | Lot 13, 4Q                                  | Moore                                                                  | 11169                       | Hochstetler                                                     | 4066                               | Sil                             | 1972                     | x               | 2500-4066                                             | MI(s)                 |
| 1515                     | 2863                                 | Berlin                                                 | Sec 4, T9N, R5W                             | Moore                                                                  | 11170                       | Miller                                                          | 4288                               | Sil                             | 1972                     | x               | 4000-4288                                             |                       |
| 1417                     | 2502                                 | Clark                                                  | Sec 7W                                      | Pennzoil                                                               | 1                           | Miller                                                          | 6653                               | Camb                            | 1971                     | x               | 0-6650                                                | MI(s)                 |
| 1609                     | 2911                                 | Clark                                                  | Sec 18                                      | Peruvian                                                               | 1                           | Troyer                                                          | 6550                               | Camb                            | 1973                     | x               | 0-6550                                                | MI(s)                 |
| 1391                     | 2182                                 | Clark                                                  | Sec 22                                      | Kin-Ark                                                                | 1                           | Raber                                                           | 6681                               | Camb                            | 1968                     |                 | 0-6680                                                | MI                    |
| 1352                     | 2384                                 | Clark                                                  | Sec 23                                      | Kin-Ark                                                                | 1                           | Funk                                                            | 6653                               | Camb                            | 1966                     | x               | 60-6650                                               |                       |
| 1365                     | 3045                                 | Clark                                                  | Sec 23                                      | Williams                                                               | 2                           | Yoder                                                           | 1139                               | Miss                            | 1974                     | x               | 75-1139                                               |                       |
| 1670                     | 3011                                 | Hardy                                                  | Lot 11, 1Q                                  | Johnston                                                               | 1                           | Castile                                                         | 3490                               | Sil                             | 1973                     | x               | NP                                                    |                       |
| 1683                     | 3029                                 | Knox                                                   | Lot 2, 1Q                                   | Oxford                                                                 | 1                           | Beck                                                            | 3430                               | Sil                             | 1973                     | x               | 96-1705                                               | MI(s)                 |
| 1431                     | 2618                                 | Knox                                                   | Lot 16, 1Q                                  | Preston                                                                | 1                           | Barner                                                          | 3243                               | Sil                             | 1971                     | x               | 190-3233                                              |                       |

| Permit no.                | Sample no. | Township     | Land division     | Operator                 | Well no. | Lease name       | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|---------------------------|------------|--------------|-------------------|--------------------------|----------|------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                           |            |              |                   |                          |          |                  |                  |                |                | Geophys.            | Sample range (ft) |                     |
| HOLMES COUNTY (continued) |            |              |                   |                          |          |                  |                  |                |                |                     |                   |                     |
| 1656                      | 2983       | Mechanic     | Sec 12E           | Mason                    | 1        | Erb              | 3929             | Sil            | 1973           | x                   | NP                | MI                  |
| 1522                      | 2779       | Mechanic     | Sec 12E           | Allegheny                | 1        | Raber            | 6176             | Camb           | 1972           | x                   | 980-6176          | MI(s)               |
| 1690                      | 3038       | Monroe       | Lot 8, 1Q         | Buckeye                  | 1        | Hipp-Stimmel     | 3290             | Sil            | 1973           | x                   | 1576-3233         | MI(s)               |
| 1746                      | 3051       | Monroe       | Lot 31, 1Q        | Hill                     | 1        | Wolfe            | 3365             | Sil            | 1974           | x                   | 0-3354            | MI(s)               |
| 1655                      | 2977       | Paint        | Lot 4E, T10N, R5W | Moore                    | 1        | Hostetler        | 4364             | Sil            | 1973           | x                   | 0-1275            | MI                  |
| 1409                      | 2412       | Paint        | Lot 18, T10N, R5W | Management Control       | 1        | Burkholder       | 6560             | Camb           | 1970           | x                   | 520-6555          | MI(s)               |
| 1570                      | 2908       | Paint        | Lot 26, T10N, R5W | Moore                    | 11288    | Yoder            | 4383             | Sil            | 1972           | x                   | 4120-4370         | MI(s)               |
| 1529                      | 2871       | Paint        | Lot 30, T10N, R5W | Moore                    | 11185    | Miller           | 4314             | Sil            | 1972           | x                   | NP                | MI                  |
| 1552                      | 2880       | Paint        | Sec 25            | Moore                    | 11281    | Hasselman        | 4219             | Sil            | 1972           | x                   | 3550-4200         | MI                  |
| 1401                      | 2354       | Paint        | Sec 27            | Mason                    | 1        | Evans            | 4114             | Sil            | 1970           | x                   | 484-4094          | MI                  |
| 1405                      | 2374       | Paint        | Sec 27            | Mason                    | 1        | Miller           | 4258             | Sil            | 1970           | x                   | 350-4258          | MI                  |
| 1433                      | 2557       | Paint        | Sec 34            | Mason                    | 1        | Miller           | 4153             | Sil            | 1971           | x                   | 2725-4152         | MI                  |
| 1741                      | 3232       | Richland     | Sec 15E           | Buckeye                  | 1        | Prieble          | 3449             | Sil            | 1974           | x                   | 3158-3434         | MI                  |
| 1663                      | 3056       | Richland     | Sec 16E           | Buckeye                  | 1        | Croskey          | 3461             | Sil            | 1974           | x                   | 90-1205           | MI                  |
| 1442                      | 2558       | Richland     | Sec 16E           | Clinwell                 | 1        | Giauque          | 3230             | Sil            | 1971           | x                   | 2172-3452         | MI                  |
|                           |            |              |                   |                          |          |                  |                  |                |                |                     | 160-500           | MI                  |
|                           |            |              |                   |                          |          |                  |                  |                |                |                     | 1930-3230         | MI                  |
| 1761                      | 3268       | Richland     | Sec 25            | Akron Petroleum          | 6        | Simmons          | 3114             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 1484                      | 2841       | Richland     | Sec 25E           | Clinwell                 | 1        | Hawkins          | 3176             | Sil            | 1972           | x                   | 3032-3159         | MI(s)               |
| 1763                      | 3253       | Ripley       | Sec 25            | Mason                    | 1        | Nisley           | 3404             | Sil            | 1974           | x                   | 0-3404            | MI                  |
| 1531                      | 2840       | Ripley       | Sec 26            | Mason                    | 1        | Turney           | 3366             | Sil            | 1972           | x                   | NP                | MI                  |
| 1438                      | 2584       | Ripley       | Sec 36            | Preston                  | 1        | Miller           | 3340             | Sil            | 1971           | x                   | 2064-3340         | MI                  |
| 1525                      | 2864       | Salt Creek   | Lot 5, 3Q         | Moore                    | 1        | Miller           | 3837             | Sil            | 1972           | x                   | NP                | MI                  |
| 1459                      | 2623       | Salt Creek   | Lot 19, 4Q        | Cotton                   | 1-A      | Brown            | 3788             | Sil            | 1971           | x                   | 770-890           | MI                  |
| 1671                      | 3012       | Salt Creek   | Sec 2             | Loffland                 | 1        | Yoder            | 3977             | Sil            | 1973           | x                   | 3440-3788         | MI                  |
| 1541                      | 2860       | Salt Creek   | Sec 3             | American Exploration     | 1        | Gingerich        | 3896             | Sil            | 1972           | x                   | 1-2843            | MI                  |
| 1611                      | 2944       | Salt Creek   | Sec 4             | American Exploration     | 1        | Coblentz         | 3885             | Sil            | 1973           | x                   | 2492-3896         | MI(s)               |
| 1582                      | 2918       | Salt Creek   | Sec 4             | American Exploration     | 1        | Hochstetler      | 3775             | Sil            | 1972           | x                   | NP                | MI                  |
| 1542                      | 2890       | Salt Creek   | Sec 4             | American Exploration     | 1        | Miller           | 3764             | Sil            | 1972           | x                   | NP                | MI                  |
| 1653                      | 3111       | Salt Creek   | Sec 4             | American Exploration     | 1        | Miller           | 3809             | Sil            | 1973           | x                   | NP                | MI                  |
| 1512                      | 2815       | Salt Creek   | Sec 4             | American Exploration     | 1        | Schlabach        | 3854             | Sil            | 1972           | x                   | 3263-3854         | MI                  |
| 1610                      | 2973       | Salt Creek   | Sec 5             | American Exploration     | 1        | Coblentz         | 3858             | Sil            | 1973           | x                   | NP                | MI                  |
| 1740                      | 3143       | Walnut Creek | Lot 17            | Buckeye                  | 2        | Shrock           | 4272             | Sil            | 1974           | x                   | 300-1180          | MI                  |
| 1526                      | 2820       | Walnut Creek | Sec 11            | Moore                    | 1        | Burkholder       | 4242             | Sil            | 1972           | x                   | 2734-4272         | MI                  |
| 1517                      | 2865       | Walnut Creek | Sec 21            | Moore                    | 1        | Hershberger      | 4348             | Sil            | 1972           | x                   | 4006-4235         | MI                  |
|                           |            |              |                   |                          |          |                  |                  |                |                |                     | 1060-4093         | MI                  |
| HURON COUNTY              |            |              |                   |                          |          |                  |                  |                |                |                     |                   |                     |
| 81                        | 2127       | Bronson      | Lot 9, 4Q         | Lake Shore               | 1        | Knupke           | 3665             | Camb           | 1968           | x                   | 500-3654          | MI(s)               |
| 72                        | 2045       | Clarksfield  | Lot 3, 2Q         | Reliance                 | 1        | Leitner          | 4191             | Camb           | 1967           | x                   | 837-4191          | MI(s)               |
| 84                        | 2172       | Hardland     | Lot 33, 2Q        | Stocker & Sittler        | 1        | Johannsen        | 301              | Camb           | 1968           | x                   | 700-4015          | MI(s)               |
| 39                        | 1515       | New Haven    | Lot 105, 1Q       | Stocker & Sittler        | 1        | Jopland-Chapman  | 3595             | Camb           | 1965           | x                   | 2851-3570         | MI(s)               |
| 73                        | 1988       | Townsend     | Lot 9, 2Q         | Mansfield                | 1        | O'Brien & Lykins | 3810             | Camb           | 1967           | x                   | 230-3810          | MI(s)               |
| 78                        | 2016       | Townsend     | Lot 56, 2Q        | Hefner                   | 1        | Haas             | 4045             | Camb           | 1967           | x                   | 600-4040          | MI(s)               |
| 80                        | 2070       | Townsend     | Lot 67            | Central Oil Field Supply | 1        | Johnston         | 3801             | Camb           | 1967           | x                   | 660-1955          | MI(s)               |
|                           |            |              |                   |                          |          |                  |                  |                |                |                     | 3000-3801         | MI(s)               |
| JACKSON COUNTY            |            |              |                   |                          |          |                  |                  |                |                |                     |                   |                     |
| 86                        | 2517       | Franklin     | Sec 21            | Redman                   | 1        | Dassel           | 5136             | Camb           | 1971           | x                   | 270-4845          | MI(s)               |
| 80                        | 2166       | Milton       | Sec 32S           | Wilson                   | 1        | Stewart          | 1939             | Dev            | 1968           | x                   | 37-1939           | MI(s)               |
| JEFFERSON COUNTY          |            |              |                   |                          |          |                  |                  |                |                |                     |                   |                     |
| 207                       | 3132       | Salem        | Sec 22            | East Ohio                | 1        | Muesegaes        | 5000             | Dev            | 1949           |                     | 180-5000          | MI                  |



## SUBSURFACE INFORMATION CATALOG

| Permit no.             | Sample no. | Township    | Land division | Operator                     | Well no. | Lease name                   | Total depth (ft) | System reached | Date completed | Geophysics | Information on file | Missing interval(s) |
|------------------------|------------|-------------|---------------|------------------------------|----------|------------------------------|------------------|----------------|----------------|------------|---------------------|---------------------|
|                        |            |             |               |                              |          |                              |                  |                |                | Logs       | Sample range (ft)   |                     |
| <b>KNOX COUNTY</b>     |            |             |               |                              |          |                              |                  |                |                |            |                     |                     |
| 1996                   | 2332       | Clay        | Sec 20        | Johnson & Butler             | 3        | Johnson                      | 2953             | Sil            | 1969           | x          | 205-2953            | MI(s)               |
| 2042                   | 2626       | Clay        | Sec 20        | Dal-Ken                      | 4        | Johnson                      | 2867             | Sil            | 1971           | x          | 262-2863            | MI(s)               |
| 1982                   | 2305       | Harrison    | Sec 11        | Johnson & Butler             | 1        | Lang                         | 2942             | Sil            | 1969           |            | 350-2933            | MI(s)               |
| 1970                   | 2272       | Howard      | Sec 15, 4Q    | Elkhead                      | 1        | Blanchard                    | 4900             | Camb           | 1969           |            | 4027-4891           |                     |
| 184                    | 3147       | Jefferson   | Sec 18S       | East Ohio                    | 1        | Bitner                       | 3063             | Sil            | 1938           |            | 2917-3063           |                     |
| 1637                   | 1531       | Middlebury  | Sec 11E       | Sohio                        | 1        | Hoffman                      | 2275             | Sil            | 1965           | x          | NP                  |                     |
| 2068                   | 2895       | Miller      | Sec 2, 4Q     | Dugan & Earlywine            | 1        | Campbell                     | 2255             | Sil            | 1972           |            | NP                  |                     |
| 1907                   | 2082       | Morris      | Sec 22        | Taylor                       | 1        | Collins-Franks               | 2386             | Sil            | 1967           | x          | 0-2386?             | MI(s)               |
| 2040                   | 2523       | Pike        | Lot 3         | Mansfield                    | 1        | Crunkilton                   | 4770             | Camb           | 1971           | x          | 800-4636            | MI(s)               |
| 1617                   | 1925       | Wayne       | Lot 24, 4Q    | Publishers                   | 1        | Baumberger                   | 4176             | Camb           | 1965           | x          | 4086-4146 C         |                     |
| <b>LAKE COUNTY</b>     |            |             |               |                              |          |                              |                  |                |                |            |                     |                     |
| 156                    | 2776       | Madison     | Lot 1, Tr 4   | Buckeye                      | 1        | Heiduk                       | 3030             | Sil            | 1972           | x          | 400-3030            | MI(s)               |
| 109                    | 2157       | Painesville | Lot 14, Tr 4  | Diamond Shamrock             | 221      | Diamond Shamrock             | 2518             | Sil            | 1968           | x          | 0-2500              | MI(s)               |
| 142                    | 2509       | Perry       | Lot 14, Tr 4  | Diamond Shamrock             | 222      | Diamond Shamrock             | 2525             | Sil            | 1968           | x          | 0-2525              | MI(s)               |
|                        |            |             | Lot 47        | Calho                        | 1        | Calho                        | 6076             | PE             | 1971           | x          | 690-5960            |                     |
|                        |            |             |               |                              |          |                              |                  |                |                |            | 5357-5417 C         |                     |
|                        |            |             |               |                              |          |                              |                  |                |                |            | 6065-6076 C         |                     |
| <b>LAWRENCE COUNTY</b> |            |             |               |                              |          |                              |                  |                |                |            |                     |                     |
| 222                    | 2641       | Decatur     | Sec 24        | Ballard & Cordell            | 1        | Collins                      | 2519             | Dev            | 1972           | x          | 600-2500            |                     |
| 219                    | 2501       | Elizabeth   | Sec 27        | Eaststates                   | 1-A      | Cambria Clay Products        | 3259             | Camb           | 1970           | x          | 500-5900            | MI(s)               |
| 217                    | 2368       | Symmes      | Sec 8         | Clinton                      | 1        | Burch                        | 3259             | Sil            | 1971           | x          | 285-3219            | MI(s)               |
| 210                    | 2163       | Union       | Sec 14        | Stewart                      | 1        | Riley                        | 2918             | Dev            | 1968           | x          | 1010-2918           | MI(s)               |
| 221                    | 2621       | Windsor     | Sec 1         | Hammerstone                  | 1        | Burcham                      | 4143             | Sil            | 1971           | x          | 320-4140            | MI(s)               |
| 220                    | 2506       | Windsor     | Sec 1         | Murphy                       | 1        | Higgins                      | 3690             | Sil            | 1971           | x          | 0-3690              | MI(s)               |
| 206                    | 2150       | Windsor     | Sec 7         | P & M                        | 7        | Bucklew                      | 3490             | Sil            | 1968           |            | 545-3452            | MI(s)               |
| <b>LICKING COUNTY</b>  |            |             |               |                              |          |                              |                  |                |                |            |                     |                     |
| 2771                   | 2328       | Bennington  | Lot 1, 2Q     | Duncan                       | 1        | Drury                        | 2109             | Sil            | 1969           | x          | 0-2109              |                     |
| 3001                   | 2826       | Fallsbury   | Sec 1         | Waverly                      | 5        | Van Winkle                   | 3049             | Sil            | 1972           |            | 80-3049             | MI                  |
| 2522                   | 2075       | Fallsbury   | Sec 3         | Poston                       | 1        | Griffith                     | 3034             | Sil            | 1967           | x          | 2962-3034           |                     |
| 2644                   | 2170       | Fallsbury   | Sec 22        | Reliance                     | 1        | Geiger                       | 3050             | Sil            | 1968           | x          | 0-116               |                     |
| 2906                   | 2522       | Granville   | Lot 6, 2Q     | Hoover                       | 1-A      | White                        | 4223             | Camb           | 1971           | x          | 1320-3014           | MI(s)               |
| 2641                   | 2174       | Hanover     | Sec 16        | J.R.S.                       | 1-A      | Williams                     | 2724             | Sil            | 1968           |            | 285-4001            | MI                  |
| 2646                   | 2171       | Hanover     | Sec 18        | Waverly                      | 5        | Hickey                       | 3045             | Sil            | 1968           |            | 232-2693            | MI                  |
| 2735                   | 2282       | Jersey      | Sec 20        | Ephraim                      | 1        | Helprey                      | 4338             | Camb           | 1969           | x          | 20-3045             | MI                  |
| 2609                   | 2137       | Lima        | Lot 16, 4Q    | Benz                         | 1        | Moreland                     | 3764             | Camb           | 1968           | x          | 0-4338              | MI(s)               |
| 3060                   | 3124       | Madison     | 3Q            | American Exploration         | 1        | Rauch                        | 2593             | Sil            | 1974           | x          | 0-3750              | MI(s)               |
| 3039                   | 2997       | Mary Ann    | Lot 1, 4Q     | Affeld                       | 1        | Felumlee                     | 2926             | Sil            | 1973           |            | NP                  |                     |
| 2539                   | 2102       | Mary Ann    | Lot 2, 4Q     | Hunting                      | 1-A      | Lamp                         | 2745             | Sil            | 1967           | x          | 0-2745              |                     |
| 2485                   | 2180       | Perry       | Sec 8         | Cannon                       | 3        | Hornby                       | 3045             | Sil            | 1968           |            | 0-825               |                     |
| 2867                   | 2394       | Perry       | Sec 13        | Bech                         | 10-B     | Wright                       | 780              | Miss           | 1970           |            | 50-780              |                     |
| 2556                   | 2100       | Perry       | Sec 15        | Hunting                      | 2-A      | Wright                       | 2924             | Sil            | 1967           |            | 0-2924              |                     |
| 2926                   | 2524       | Perry       | Sec 25        | Waverly                      | 2        | Johnson                      | 2728             | Sil            | 1971           |            | 1450-2596           | MI(s)               |
| 2827                   | 2360       | St. Albans  | Lot 23, 2Q    | National                     | 1        | Wells                        | 2012             | Sil            | 1970           | x          | 175-1993            |                     |
| <b>LOGAN COUNTY</b>    |            |             |               |                              |          |                              |                  |                |                |            |                     |                     |
| 2650                   | 2648       | Bloomfield  | Sec 29        | Ohio Transp. Research Center | SW-15    | Evans                        | 310              | Ord            |                |            | 155-310 W           |                     |
| 2991                   | 2651       | Perry       | VMSL 5089     | CP-10                        | 2        | Ohio Transp. Research Center | 405              | Sil            | 1973           |            | 20-405 W            |                     |
| 2651                   | 2912       | Richland    | VMSL 9949     | SW-16                        | 1        | Roberts                      | 240              | Sil            |                |            | NP W                |                     |
| 83                     | 2647       | Rush Creek  | VMSL 9887     | CP-2                         | 1        | Johnson                      | 350              | Sil            | 1973           | x          | 0-350 W             | MI                  |
|                        | 2649       | Rush Creek  | VMSL 9977     | CP-15                        |          |                              | 2936             | Camb           |                |            | 1600-2900           |                     |
|                        |            | Zane        |               |                              |          |                              | 350              | Sil            |                |            | 42-350 W            |                     |
|                        |            |             |               |                              |          |                              | 300              | Sil            |                |            | 29-300 W            |                     |

| Permit no.      | Sample no. | Township      | Land division | Operator                | Well no.      | Lease name              | Total depth (ft) | System reached | Date completed | Information on file |                                             | Missing interval(s) |
|-----------------|------------|---------------|---------------|-------------------------|---------------|-------------------------|------------------|----------------|----------------|---------------------|---------------------------------------------|---------------------|
|                 |            |               |               |                         |               |                         |                  |                |                | Geophysics          | Sample range (ft)                           |                     |
| LORAIN COUNTY   |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
| 914             | 2181       | Black River   | Tr 1          | Diamond Crystal         | 1             | Lorain(city)            | 1611             | Sil            | 1967           | x                   | 650-792<br>640-1611 C                       | MI(s)               |
| 909             | 2046       | Eaton         | Lot 82        | Kapp                    | 1             | Spitzer Ford            | 2533             | Sil            | 1967           | x                   | 250-2530                                    | MI(s)               |
| 924             | 2228       | Eaton         | Lot 97        | Kapp                    | 1             | Kantosky                | 2452             | Sil            | 1967           | x                   | NP                                          | MI(s)               |
| 919             | 2222       | Eaton         | Lot 99        | Kapp                    | 1             | Stanislowski            | 2500             | Sil            | 1967           | x                   | 0-250<br>1000-1400<br>2000-2400<br>300-2550 | MI(s)               |
| 939             | 2225       | Grafton       | Lot 24        | Kapp                    | 1             | Longwell                | 2550             | Sil            | 1967           | x                   | 0-2555<br>40-2632                           | MI(s)               |
| 960             | 2232       | Grafton       | Lot 59        | Waugaman                | 1             | Aldrich                 | 2572             | Sil            | 1968           | x                   | 230-3954                                    | MI(s)               |
| 1013            | 2559       | Grafton       | Lot 81        | Ohio Shale              | 1             | Kazmierczak             | 2632             | Sil            | 1971           | x                   | 45-4390                                     | MI(s)               |
| 897             | 2387       | Henrietta     | Lot 24        | Kennedy                 | 1             | Boy Scouts              | 3954             | Camb           | 1967           | x                   | 2218-2344                                   | MI(s)               |
| 948             | 2146       | Rochester     | Lot 11, Tr 4  | Kubat                   | 1             | Churella                | 4396             | Camb           | 1968           | x                   |                                             | MI(s)               |
| 6-4             | 3200       | Rochester     | Lot 4, Tr 5   | Brendel                 | 1             | Eaton                   | 2405             | Sil            | 1944           |                     |                                             | MI(s)               |
| LUCAS COUNTY    |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
| 60              | 2811       | Harding       | Sec 9         | Liberty                 | 1             | Ketting                 | 3915             | PC             | 1972           | x                   | 100-3903                                    | MI(s)               |
| 49              | 2512       | Oregon        |               | Fenix & Scisson         | 1             | Standard                | 625              | Sil            | 1969           |                     | 449-509 C                                   | MI(s)               |
| 50              | 2513       | Oregon        |               | Fenix & Scisson         | 2             | Standard                | 617              | Sil            | 1969           |                     | 458-508 C                                   | MI(s)               |
| 51              | 2514       | Oregon        |               | Fenix & Scisson         | 3             | Standard                | 627              | Sil            | 1969           |                     | 120-410 C                                   | MI(s)               |
|                 | 2454       | Richfield     | Sec 11        | M-40                    | Okos          | State of Ohio           | 310              | Sil            |                |                     | 47-310 W                                    | MI(s)               |
|                 | 2453       | Swanton       | Sec 32        | M-39                    | State of Ohio |                         | 250              | Dev            |                |                     | 80-250 W                                    | MI(s)               |
| MADISON COUNTY  |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
|                 | 2664       | Darby         |               |                         | CP-25         |                         | 300              | Sil            |                |                     | 22-300 W                                    |                     |
|                 | 2667       | Deer Creek    |               |                         | CP-29         |                         | 290              | Sil            |                |                     | 140-294 W                                   |                     |
|                 | 2665       | Fairfield     |               |                         | CP-27         |                         | 350              | Sil            |                |                     | 238-350 W                                   |                     |
|                 | 2663       | Pike          |               |                         | CP-24         |                         | 270              | Sil            |                |                     | 21-270 W                                    |                     |
|                 | 2666       | Stokes        |               |                         | CP-28         |                         | 225              | Sil            |                |                     | 40-225 W                                    |                     |
|                 | 2668       | Union         |               |                         | CP-30         |                         | 350              | Sil            |                |                     | 173-350 W                                   |                     |
| MAHONING COUNTY |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
| 277             | 2631       | Beaver        | Sec 5         | Columbia Gas            | 11097         | American Fire Clay      | 5658             | Sil            | 1971           | x                   | 180-5590                                    | MI                  |
| 312             | 3257       | Coitsville    | Lot 18        | Atlas                   | 1             | Hamrock                 | 5713             | Sil            | 1973           | x                   | NP                                          | MI                  |
| 250             | 2357       | Ellsworth     | Sec 15        | Liberty                 | 1             | Myers                   | 8350             | Camb           | 1970           | x                   | 4900-8310                                   | MI                  |
| 35              | 3197       | Goshen        | Sec 1         | McIntosh                | 1             | Dunn                    | 3532             | Dev            | 1946           | x                   | 3233-3530                                   | MI                  |
| 242             | 2179       | Goshen        | Sec 7         | Petrocon                | 2             | Brown                   | 5329             | Sil            | 1968           | x                   | 50-5300                                     | MI(s)               |
| 304             | 2928       | Poland        | Lot 32        | Youngstown Sheet & Tube | 1             | Youngstown Sheet & Tube | 5741             | Sil            | 1973           | x                   | 30-5700                                     | MI(s)               |
| 11              | 2409       | Poland        | Lot 77        | Phillips                | 1             | Fenton                  | 4047             | Dev            | 1937           | x                   | 3700-4047                                   | MI(s)               |
| 124             | 3242       | Smith         | Sec 3         | East Ohio               | 1             | Heichelbech             | 5056             | Sil            | 1961           | x                   | 4857-5056                                   | MI(s)               |
| 212             | 2329       | Smith         | Sec 4         | Kin-Ark                 | 1             | Brenner                 | 8194             | Camb           | 1964           | x                   | 6390-7970                                   | MI(s)               |
| 126             | 3241       | Smith         | Sec 5         | East Ohio               | 1             | Cook                    | 4924             | Sil            | 1961           | x                   | 4721-4924                                   | MI(s)               |
| 130             | 3129       | Smith         | Sec 10        | East Ohio               | 1             | Koval                   | 5089             | Sil            | 1961           | x                   | 4840-5088                                   | MI(s)               |
| 34              | 3151       | Springfield   | Sec 16        | East Ohio               | 1             | Braunstein              | 6059             | Sil            | 1943           | x                   | 5284-5579                                   | MI(s)               |
| 437             | 3044       | Youngstown    | Lot 1329      | Management Control      | 1             | Watson                  | 5190             | Sil            | 1974           | x                   | NP                                          | MI(s)               |
| MARION COUNTY   |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
|                 | 2830       | Big Island    | Sec 30        | State of Ohio           | 2             | Big Island              | 235              | Sil            | 1971           |                     | 35-235 W                                    |                     |
|                 | 2677       | Big Island    | Sec 31        | State of Ohio           | 4             | State of Ohio           | 290              | Sil            |                |                     | 22-290 W                                    |                     |
|                 | 2478       | Grand Prairie | Sec 18        | Heil                    | S-4           | Theil                   | 300              | Sil            |                |                     | 76-300 W                                    |                     |
|                 | 2679       | Pleasant      | Sec 25        | CP-7                    | CP-7          | Hoagland                | 210              | Sil            |                |                     | 10-210 W                                    |                     |
|                 | 2678       | Prospect      | Sec 35        | CP-5                    | CP-5          | Hecker                  | 300              | Sil            | 1965           |                     | 55-300 W                                    |                     |
| 101             | 1696       | Waldo         |               | Cities                  | 1             | Hecker                  | 2510             | Camb           |                |                     | 0-2510<br>2450-2510 C                       |                     |
| MEDINA COUNTY   |            |               |               |                         |               |                         |                  |                |                |                     |                                             |                     |
| 527             | 3192       | Granger       | Lot 60        | Ohio Fuel               | 1             | Shade                   | 3541             | Sil            | 1944           | x                   | 3450-3541                                   | MI(s)               |
| 1729            | 2264       | Guilford      | Sec 19        | McMillen & Lichty       | 3             | Stone                   | 3572             | Sil            | 1969           | x                   | 610-3563                                    | MI(s)               |
| 1883            | 3275       | Guilford      | Sec 22        | King                    | 1             | Newman                  | 3470             | Sil            | 1974           | x                   | 0-750<br>2005-3470                          | MI(s)               |

## SUBSURFACE INFORMATION CATALOG

| Permit no.                | Sample no. | Township  | Land division | Operator              | Well no. | Lease name                 | Total depth (ft) | System reached | Date completed | Information on file |                    | Missing interval(s) |
|---------------------------|------------|-----------|---------------|-----------------------|----------|----------------------------|------------------|----------------|----------------|---------------------|--------------------|---------------------|
|                           |            |           |               |                       |          |                            |                  |                |                | Geophysics          | Sample range (ft)  |                     |
| MEDINA COUNTY (continued) |            |           |               |                       |          |                            |                  |                |                |                     |                    |                     |
| 410                       | 3203       | Hinckley  | Lot 67        | Belmont               | 183      | Johnson                    | 3269             | Sil            | 1942           | x                   | 3097-3252          | MI(s)               |
| 1285                      | 989        | Hinckley  | Lot 72        | Wiser                 | 2-A      | Cleveland                  | 6004             | Camb           | 1961           | x                   | 5756-5988          |                     |
| 1819                      | 2951       | Homer     | Sec 20        | Moore                 | 11358    | Metropolitan Park District | 5667             | PC             | 1973           | x                   | 0-5665             |                     |
| 1676                      | 2130       | Liverpool | Sec 16        | Preston               | 1        | Muehlhaeuser               | 3077             | Sil            | 1967           |                     | 1186-3063          |                     |
| 1683                      | 2135       | Montville | Lot 96        | McMillen              | 2        | Hinkle                     | 3456             | Sil            | 1968           |                     | 0-3455             |                     |
| 526                       | 2947       | Montville | Lot 12        | Dunbar                | 1        | Pivato                     | 306              | Miss           |                |                     | 36-306 W           | MI(s)               |
| 1640                      | 3190       | Sharon    | Lot 18        | Wiser                 | 1        | Himmelright                | 3704             | Sil            | 1944           |                     | 3544-3703          |                     |
| 1666                      | 2098       | Sharon    | Lot 19        | King                  | 1        | Dressler                   | 3614             | Sil            | 1967           | x                   | 0-3614             |                     |
| 1870                      | 2140       | Sharon    | Lot 16        | Patten                | 1        | Stauffer                   | 3559             | Sil            | 1967           |                     | 511-3559           |                     |
| 1870                      | 3086       | Spencer   | Sec 16        | Moore                 | 20098    | Shetler                    | 2975             | Sil            | 1974           | x                   | NP                 |                     |
| 1776                      | 2808       | Wadsworth | Lot 16W       | McMillen              | 1        | Ruffner & Lang             | 3526             | Sil            | 1972           | x                   | 0-528<br>2015-3514 |                     |
| MEIGS COUNTY              |            |           |               |                       |          |                            |                  |                |                |                     |                    |                     |
| 1417                      | 2213       | Chester   | Sec 11        | Rock Resources        | 1        | Holter-Call                | 3405             | Dev            | 1968           | x                   | 100-3405           | MI(s)               |
| 1424                      | 2576       | Lebanon   | Lot 170       | Blue Creek            | 1        | Hoback                     | 5650             | Sil            | 1969           |                     | 4000-5650          |                     |
| 1423                      | 2253       | Lebanon   | Lot 175       | Hunting               | 1-A      | Cleek                      | 5779             | Sil            | 1969           | x                   | 110-5770           | MI(s)               |
| 1422                      | 2249       | Lebanon   | Lot 178       | Hunting               | 1-A      | Ferrell                    | 4917             | Sil            | 1969           | x                   | 100-4910           |                     |
| 1427                      | 2301       | Lebanon   | Lot 179       | Hunting               | 1-A      | Fleming                    | 5345             | Sil            | 1969           | x                   | 45-5300            | MI(s)               |
| 1552                      | 3027       | Lebanon   | Lot 191       | Thunderbird           | 2        | Hayes                      | 3680             | Dev            | 1973           | x                   | NP                 |                     |
| 1425                      | 2271       | Lebanon   | Sec 16        | Quaker                | 1        | Roush                      | 4879             | Sil            | 1969           | x                   | 280-4875           | MI(s)               |
| 991                       | 2711       | Olive     | Fr 19         | Putnam                | 1        | Barnett                    | 2574             | Miss           | 1951           |                     | 325-2540           |                     |
| 969                       | 2720       | Olive     | Fr 32E        | Putnam                | 1        | Mays-Torrence              | 2072             | Miss           | 1951           |                     | 275-1876           | MI                  |
| 1037                      | 2724       | Olive     | Lot 102       | Putnam                | 1        | Stewart                    | 1945             | Miss           | 1953           |                     | 400-1945           |                     |
| 1033                      | 2717       | Olive     | Lot 103       | Putnam                | 1        | Mills                      | 2119             | Miss           | 1953           |                     | 460-2119           | MI                  |
| 1035                      | 2735       | Olive     | Lot 107       | Putnam                | 2        | Humphrey                   | 1879             | Miss           | 1952           |                     | 605-1879           |                     |
| 882                       | 2726       | Olive     | Lot 109       | Putnam                | 1        | Buckley                    | 2021             | Miss           | 1949           |                     | 210-2021           |                     |
| 959                       | 2712       | Olive     | Lot 121E      | Putnam                | 1        | Buckley                    | 1877             | Miss           | 1950           |                     | 115-1868           |                     |
| 917                       | 2718       | Olive     | Lot 122       | Putnam                | 1        | Pickens                    | 1891             | Miss           | 1959           |                     | 75-1891            |                     |
| 927                       | 2714       | Olive     | Lot 132       | Putnam                | 1        | Prince                     | 1843             | Miss           | 1950           |                     | 450-1843           | MI(s)               |
| 1448                      | 2321       | Olive     | Lot 135       | Hunting               | 1-A      | Cowdery                    | 4913             | Sil            | 1969           | x                   | 120-4912           |                     |
| 1044                      | 2723       | Olive     | Lot 1159      | Putnam                | 1        | Buchanan                   | 1911             | Miss           | 1953           |                     | 855-1911           |                     |
| 1011                      | 2710       | Olive     | Lot 1162      | Putnam                | 1        | Burns                      | 1946             | Miss           | 1951           |                     | 75-1936            |                     |
| 953                       | 2707       | Olive     | Sec 8         | Putnam                | 1        | Humphrey                   | 2097             | Miss           | 1950           |                     | 335-2097           |                     |
| 873                       | 2709       | Olive     | Sec 8         | Putnam                | 1        | Torrence                   | 2171             | Miss           | 1949           |                     | 75-2171            | MI(s)               |
| 1013                      | 2715       | Olive     | Sec 11        | Putnam                | 1        | Randolph                   | 4242             | Dev            | 1952           |                     | 515-4242           |                     |
| 1477                      | 2578       | Orange    | Sec 23        | Hunting               | 1        | Van Meter-Robinson         | 5076             | Sil            | 1970           |                     | 930-5061           | MI(s)               |
| 1409                      | 2091       | Salisbury | Fr 17         | Rohrkaste             | 14       | Burdette                   | 1849             | Miss           | 1967           |                     | 275-1821           |                     |
| MERCER COUNTY             |            |           |               |                       |          |                            |                  |                |                |                     |                    |                     |
| 150                       | 2839       | Butler    | Sec 1         | West Ohio             | 1        | Selhorst                   | 1225             | Ord            | 1972           | x                   | NP                 | MI(s)               |
| 149                       | 2834       | Butler    | Sec 10        | West Ohio             | 1        | Hartke                     | 1290             | Ord            | 1971           | x                   | NP                 |                     |
| 141                       | 2456       | Center    | Sec 3         |                       | M-42     | Leitzell                   | 280              | Sil            |                |                     | 30-280 W           |                     |
| 139                       | 2497       | Center    | Sec 4         | Harner                | 2        | Yewey                      | 3215             | PC             | 1971           | x                   | 1-3214             |                     |
|                           | 2204       | Center    | Sec 10        | Harner                | 1        | Townsend                   | 1624             | Ord            | 1968           |                     | 1325-1624          |                     |
| 142                       | 2358       | Dublin    | Sec 19        | Dal-Ken               | 1        | Daugherty                  | 1904             | Camb           | 1970           | x                   | 993-1904           | MI(s)               |
| 148                       | 2835       | Granville | Sec 13        | West Ohio             | 1        | Kunkler                    | 1199             | Ord            | 1971           | x                   | NP                 |                     |
|                           | 2685       | Liberty   | Sec 35        |                       | SW-1     |                            | 240              | Ord            |                |                     | 30-240 W           | MI                  |
|                           | 2687       | Marion    | Sec 35        |                       | SW-3     |                            | 300              | Ord            |                |                     | 70-300 W           |                     |
|                           | 2686       | Recovery  | Sec 22        |                       | SW-2     |                            | 280              | Ord            |                |                     | 50-280 W           |                     |
| MONROE COUNTY             |            |           |               |                       |          |                            |                  |                |                |                     |                    |                     |
| 464                       | 2184       | Bethel    | Sec 3         | Petroleum Specialties | 2        | McVay                      | 3552             | Dev            | 1968           |                     | 1470-3552          | MI                  |
| 1752                      | 2186       | Bethel    | Sec 5N        | Petroleum Specialties | 2        | C. D. Hercher              | 2686             | Dev            | 1968           |                     | 300-2640           |                     |
| 1760                      | 2177       | Bethel    | Sec 5S        | Gruss                 | 1        | Beardmore                  | 3997             | Dev            | 1968           |                     | 0-3990             |                     |
| 1703                      | 2201       | Bethel    | Sec 29S       | Parker                | 1        | Prowell                    | 3801             | Dev            | 1967           |                     | 407-3801           |                     |
| 1689                      | 2062       | Bethel    | Sec 35N       | Petroleum Specialties | 1        | C. D. Hercher              | 3115             | Dev            | 1967           | x                   | 1643-3100          |                     |
| 1282                      | 2185       | Bethel    | Sec 35N       | Petroleum Specialties | 1        | E. E. Hercher              | 3754             | Dev            | 1968           |                     | 1376-3744          | MI(s)               |
| 349                       | 2752       | Center    | Sec 8W        | South Penn            | 1        | Bartsch                    | 3300             | Dev            | 1944           |                     | 1859-2975          |                     |

| Permit no.                | Sample no. | Township    | Land division | Operator              | Well no. | Lease name                  | Total depth (ft)  | System reached | Date completed | Information on file |                   | Missing interval(s) |
|---------------------------|------------|-------------|---------------|-----------------------|----------|-----------------------------|-------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                           |            |             |               |                       |          |                             |                   |                |                | Geophys.            | Sample range (ft) |                     |
| MONROE COUNTY (continued) |            |             |               |                       |          |                             |                   |                |                |                     |                   |                     |
| 1077                      | 2187       | Franklin    | Sec 36        | Petroleum Specialties | 9        | Winland                     | 3638              | Dev            | 1968           | x                   | 1500-3615         | MI(s)               |
| 1800                      | 2349       | Green       | Sec 27        | R. & L.               | 1        | Workman                     | 3002              | Dev            | 1970           | x                   | 964-3002          | MI                  |
| 1797                      | 2327       | Jackson     | Sec 33        | American Minerals     | 1        | Bradfield                   | 3508              | Dev            | 1969           | x                   | 150-3480          |                     |
| 1785                      | 2311       | Summit      | Sec 16        | B.M.C.                | 1        | Weber                       | 2018              | Miss           | 1969           | x                   | 40-2018           |                     |
| 1745                      | 2160       | Switzerland | Sec 36        | Murphy                | 1        | Dangel                      | 6304              | Dev            | 1968           | x                   | 3-6304            |                     |
| 1729                      | 2139       | Washington  | Sec 1         | Shrider               | 1        | Antil                       | 3725              | Dev            | 1968           | x                   | 1314-3725         | MI                  |
| 1757                      | 2188       | Washington  | Sec 7         | Liberty               | 2        | McHugh                      | 1787              | Miss           | 1968           | x                   | 1115-1787         |                     |
| 1721                      | 2189       | Washington  | Sec 7         | Bode                  | 1        | Wallace                     | 2324              | Dev            | 1968           | x                   | 1003-2300         | MI(s)               |
| 1756                      | 2190       | Washington  | Sec 8         | Liberty               | 1        | Christy                     | 1812              | Dev?           | 1968           | x                   | 1340-1812         |                     |
| 1712                      | 2109       | Washington  | Sec 8         | Patrick               | 1        | Knowlton                    | 3605              | Dev            | 1967           | x                   | 500-1152          |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 1838-2321         |                     |
| 1744                      | 2191       | Washington  | Sec 15        | Evans                 | 1        | Griffin                     | 2155              | Dev            | 1968           | x                   | 494-2135          | MI(s)               |
| 1742                      | 2151       | Washington  | Sec 16        | Clinton               | 1-A      | Hupp                        | 3808              | Dev            | 1968           | x                   | 1385-3800         | MI(s)               |
| 1699                      | 2108       | Washington  | Sec 21        | Evans                 | 1        | Whitacre                    | 2810              | Dev            | 1967           | x                   | 404-2787          | MI(s)               |
| 1762                      | 2234       | Wayne       | Sec 9         | Baker                 | 1        | Platt                       | 3837              | Dev            | 1968           | x                   | 0-3804            | MI                  |
| 1787                      | 2577       | Wayne       | Sec 13        | H & O                 | 1        | Litten                      | 1385              | Miss           | 1969           | x                   | 604-1385          | MI(s)               |
| MONTGOMERY COUNTY         |            |             |               |                       |          |                             |                   |                |                |                     |                   |                     |
| 2                         | 550        | Butler      | Sec 11        | Belden & Blake        | 1        | Jenkins                     | 1175              | Ord            | 1952           | x                   | 345-985           | MI(s)               |
| MORGAN COUNTY             |            |             |               |                       |          |                             |                   |                |                |                     |                   |                     |
| 1295                      | 2881       | Bristol     | Sec 9         | Artex                 | 1        | Wilson                      | 4866              | Sil            | 1972           | x                   | NP                | MI(s)               |
| 1177                      | 2361       | Bristol     | Sec 13        | Redman                | 1        | Morris                      | 5100              | Sil            | 1970           | x                   | 1400-4100         |                     |
| 1294                      | 2853       | Bristol     | Sec 13        | Worthington           | 1        | Rex                         | 5106              | Sil            | 1972           | x                   | 1000-1380         |                     |
| 1299                      | 2876       | Bristol     | Sec 17        | Artex                 | 1        | Bird                        | 4963              | Sil            | 1972           | x                   | 3350-5100         |                     |
| 1214                      | 2548       | Bristol     | Sec 20        | Worthington           | 1        | Fuller                      | 4860              | Sil            | 1971           | x                   | NP                |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 1000-1700         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3200-4830         |                     |
| 1266                      | 2700       | Bristol     | Sec 20        | Worthington           | 1        | Roberts                     | 4790              | Sil            | 1972           | x                   | 1000-1950         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3210-4790         |                     |
| 1195                      | 2956       | Bristol     | Sec 24        | Smith                 | 2        | Scott-Ohio                  | 5035              | Sil            | 1973           | x                   | NP                |                     |
| 1290                      | 2803       | Bristol     | Sec 28        | Worthington           | 1        | Lawrence                    | 4752              | Sil            | 1973           | x                   | 1000-1400         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3150-4710         |                     |
| 1279                      | 2770       | Bristol     | Sec 28        | Worthington           | 1        | Ray                         | 4866              | Sil            | 1972           | x                   | 1300-1800         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3200-4860         |                     |
| 1277                      | 2754       | Bristol     | Sec 29        | Worthington           | 1        | Kalb                        | 4677              | Sil            | 1972           | x                   | 1000-1500         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3100-4600         |                     |
| 1211                      | 2533       | Bristol     | Sec 29        | Redman                | 1        | Miller                      | 4749              | Sil            | 1971           | x                   | 1260-1640         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3190-4749         |                     |
| 1269                      | 2744       | Bristol     | Sec 29        | Worthington           | 1        | Ray                         | 4846              | Sil            | 1972           | x                   | 1000-2000         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3250-4830         |                     |
| 1288                      | 2935       | Bristol     | Sec 30        | Viking                | 1        | Cunningham                  | 4645 <sup>7</sup> | Sil            | 1972           | x                   | 4495-4645         |                     |
| 1267                      | 2704       | Bristol     | Sec 30        | Worthington           | 1        | Lawrence                    | 4712              | Sil            | 1972           | x                   | 1000-1990         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3200-4700         |                     |
| 1173                      | 2347       | Center      | Sec 6         | Texaco                | 1        | Stout                       | 5366              | Sil            | 1970           | x                   | 0-5366            | MI(s)               |
|                           |            |             |               |                       |          |                             |                   |                |                |                     |                   |                     |
| 1186                      | 2397       | Center      | Sec 7         | Texaco                | 1        | Moretz                      | 5390              | Sil            | 1971           | x                   | 700-5300          | MI(s)               |
| 1221                      | 2612       | Center      | Sec 10        | Quaker                | 1        | Parcell-Allen               | 5575              | Sil            | 1971           | x                   | 1650-1840         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3780-5560         |                     |
| 1273                      | 2758       | Center      | Sec 10        | Quaker                | 1-0      | Silvus                      | 5518              | Sil            | 1972           | x                   | 1650-1736         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 3760-5500         |                     |
| 1265                      | 2771       | Center      | Sec 15        | Redman                | 1        | Clark                       | 1627              | Miss           | 1972           | x                   | 1000-1550         |                     |
| 1246                      | 2624       | Center      | Sec 16        | Redman                | 1        | Pennoch                     | 5563              | Sil            | 1971           | x                   | 1700-1830         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 4065-5550         |                     |
| 1293                      | 2816       | Center      | Sec 17        | Redman                | 2        | Wagner                      | 5402              | Sil            | 1972           | x                   | 1000-1850         |                     |
|                           |            |             |               |                       |          |                             |                   |                |                |                     | 1850-4080         |                     |
| 1231                      | 2844       | Center      | Sec 21        | Redman                | 1        | Albright, Clark, & Remleigh | 2000              | Miss           | 1971           | x                   | NP                |                     |
| 1345                      | 3004       | Center      | Sec 27        | Quaker                | 1-0      | Noyes-Hupp                  | 5435              | Sil            | 1973           | x                   | NP                |                     |
| 1235                      | 2703       | Deerfield   | Sec 6         | Columbia Gas          | 11043    | Campbell                    | 6258              | Camb           | 1971           | x                   | 40-6255           | MI(s)               |
| 1334                      | 2979       | Deerfield   | Sec 7         | Liberty               | 2        | Banks                       | 4128              | Sil            | 1973           | x                   | 891-1549          |                     |



## SUBSURFACE INFORMATION CATALOG

| Permit no.                | Sample no. | Township    | Land division | Operator             | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Geophysics | Information on file    | Missing interval(s) |
|---------------------------|------------|-------------|---------------|----------------------|----------|-----------------------|------------------|----------------|----------------|------------|------------------------|---------------------|
| MORGAN COUNTY (continued) |            |             |               |                      |          |                       |                  |                |                |            |                        |                     |
| 1297                      | 2831       | Deerfield   | Sec 17        | Columbia Gas         | 1        | Timberman             | 4170             | Sil            | 1972           | x          | 400-4160               | MI(s)               |
| 1249                      | 2638       | Homer       | Fr 32         | Columbia Gas         | 11125    | Kittle                | 6521             | Camb           | 1972           | x          | 1300-1410<br>2830-6519 | MI(s)               |
| 1206                      | 2526       | Homer       | Sec 3         | Cameron & Kincaid    | 3        | Murphy                | 1390             | Miss           | 1971           | x          | NP                     |                     |
| 1341                      | 2995       | Homer       | Sec 6         | Benatty              | 1        | Reliance              | 1571             | Miss           | 1973           | x          | NP                     |                     |
| 1289                      | 2882       | Manchester  | Sec 5         | Donnelly             | 1        | Read                  | 5175             | Sil            | 1972           | x          | NP                     |                     |
| 1217                      | 2589       | Manchester  | Sec 8         | Liberty              | 1        | Rex                   | 5262             | Sil            | 1971           | x          | 1000-1590<br>3580-4960 | MI(s)               |
| 1354                      | 3080       | Manchester  | Sec 17        | Texaco               | 1        | Henderson-Ohio Power  | 5498             | Sil            | 1973           | x          | NP                     |                     |
| 1287                      | 2775       | Manchester  | Sec 31        | Ohio Production      | 1        | Ferguson              | 3852             | Dev            | 1972           | x          | 0-3852                 | MI(s)               |
| 1418                      | 3266       | Meigsville  | Sec 16        | Foraker              | 1        | Blair-Fennant         | 4930             | Sil            | 1974           | x          | 1350-1650<br>3390-4930 | MI(s)               |
| 120                       | 2401       | Meigsville  | Sec 22        | Southern Triangle    | 1        | Dearth                | 5097             | Sil            | 1939           | x          | 200-5079               |                     |
| 1320                      | 2929       | Meigsville  | Sec 24        | Ohio Fuel            | 1        | Eubank-Ponchak-Slivka | 3770             | Dev            | 1973           | x          | 1550-1720<br>3500-3770 | MI(s)               |
| 1203                      | 2529       | Morgan      | Sec 1         | Ohio Fuel            | 1        | Hammond               | 4900             | Sil            | 1971           | x          | 1370-4900              | MI(s)               |
| 1208                      | 2528       | Union       | Sec 1         | Texaco               | 11044    | McConkey              | 4475             | Sil            | 1971           | x          | 1365-1485<br>3100-4475 | MI(s)               |
| 1302                      | 2855       | Windsor     | Lot 28        | Reliance             | 1        | Strahler              | 5356             | Sil            | 1972           | x          | 0-5356                 | MI(s)               |
| 1291                      | 2813       | York        | Sec 23W       | Reliance             | 1        | Sharp                 | 3810             | Sil            | 1972           | x          | NP                     |                     |
| 1340                      | 3008       | York        | Sec 29        | Reliance             | 1        | Lewis                 | 4148             | Sil            | 1973           | x          | NP                     |                     |
| MORROW COUNTY             |            |             |               |                      |          |                       |                  |                |                |            |                        |                     |
| 2680                      | 1886       | Canaan      | Sec 27        | Ashland              | 2        | Cochran               | 3140             | Camb           | 1965           | x          | 2400-3140              |                     |
| 2668                      | 1736       | Canaan      | Sec 32        | Keener               | 2        | Barker                | 3025             | Camb           | 1965           | x          | 2300-3025              |                     |
| 2208                      | 1560       | Chester     | Lot 29, 3Q    | Keener               | 1        | Ulery                 | 3770             | Camb           | 1964           | x          | NP                     |                     |
| 2905                      | 2582       | Congress    | Sec 2         | Lake Shore           | 1        | Grogg                 | 3980             | Camb           | 1966           | x          | 2600-3980              | MI                  |
| 3210                      | 2769       | Gilead      | Sec 35W       | Mansfield            | 1        | Mattix                | 3135             | Camb           | 1972           | x          | 500-1640<br>2000-3134  |                     |
| 1954                      | 1482       | Lincoln     | Lot 19, 3Q    | Enkligh              | 1        | Beck                  | 3413             | Camb           | 1964           | x          | NP                     | MI                  |
| 3195                      | 2747       | Lincoln     | Lot 8, 4Q     | Shelter Funds        | 1        | Martin                | 3231             | Camb           | 1972           | x          | 530-1310               | MI(s)               |
| 3185                      | 2697       | Perry       | Sec 7         | Moore                | 1        | Smith                 | 1555             | Sil            | 1971           | x          | 595-1538               | MI(s)               |
| 121                       | 1118       | Westfield   | Sec 21        | Ferguson-Bosworth    | 1        | Martin                | 3350             | Camb           | 1963           | x          | 80-3350                | MI(s)               |
| MUSKINGUM COUNTY          |            |             |               |                      |          |                       |                  |                |                |            |                        |                     |
| 2814                      | 2833       | Adams       | Sec 12        | Petroc               | 1        | Adams                 | 4287             | Sil            | 1972           | x          | 128-4271               | MI(s)               |
| 3080                      | 2984       | Adams       | Sec 16        | Petroc               | 1        | Studor                | 4154             | Sil            | 1973           | x          | 0-2000                 | MI(s)               |
| 1978                      | 2173       | Adams       | Sec 19        | Petroc               | 1        | Goff                  | 4290             | Sil            | 1968           | x          | 0-4290                 | MI(s)               |
| 2875                      | 2879       | Adams       | Sec 23        | Guernsey             | 1-C      | Bissett               | 4353             | Sil            | 1972           | x          | NP                     |                     |
| 3105                      | 3021       | Blue Rock   | Sec 11        | Quaker               | 1-0      | Frame                 | 4728             | Sil            | 1973           | x          | 1400-1600<br>3200-4710 |                     |
| 3099                      | 3007       | Blue Rock   | Sec 15        | Quaker               | 1-0      | Dearinger             | 4482             | Sil            | 1973           | x          | NP                     |                     |
| 3014                      | 2993       | Blue Rock   | Sec 16        | Quaker               | 1-0      | Snyder                | 4540             | Sil            | 1973           | x          | NP                     |                     |
| 3117                      | 3005       | Blue Rock   | Sec 21        | Quaker               | 1-0      | Fox                   | 4271             | Sil            | 1973           | x          | NP                     |                     |
| 3040                      | 2970       | Blue Rock   | Sec 25        | Chief                | 1        | Sutton                | 4690             | Sil            | 1973           | x          | NP                     |                     |
| 3077                      | 3019       | Blue Rock   | Sec 34        | Quaker               | 2-0      | Daw                   | 4701             | Sil            | 1973           | x          | NP                     |                     |
| 3380                      | 3127       | Brush Creek | Sec 6N        | Oxford               | 1        | Smith                 | 3885             | Sil            | 1974           | x          | NP                     | MI(s)               |
| 2052                      | 2291       | Brush Creek | Sec 8S        | Temple               | 1        | Lane                  | 4112             | Sil            | 1969           | x          | 0-4112                 | MI(s)               |
| 2531                      | 2569       | Brush Creek | Sec 10        | Major                | 1        | Ross                  | 4267             | Sil            | 1971           | x          | 157-4267               | MI(s)               |
| 3065                      | 2978       | Cass        | Lot 21, 3Q    | Liberty              | 1        | Fulton                | 3551             | Sil            | 1973           | x          | 521-1717               | MI(s)               |
| 2586                      | 2586       | Cass        | Lot 12, 4Q    | Shrider              | 1        | Cunningham            | 3539             | Sil            | 1971           | x          | 23-3534                | MI(s)               |
| 3224                      | 3117       | Falls       | 3Q, T1N, R8W  | American Exploration | 3        | Shuey                 | 3486             | Sil            | 1974           | x          | NP                     |                     |
| 3301                      | 3047       | Falls       | 3Q, T1N, R8W  | American Exploration | 1        | Miller                | 3580             | Sil            | 1974           | x          | 0-1230                 |                     |
| 2969                      | 2941       | Falls       | 3Q, T1N, R8W  | American Exploration | 1-A      | Shuey                 | 3488             | Sil            | 1973           | x          | NP                     |                     |
| 3222                      | 3118       | Falls       | 3Q, T1N, R8W  | American Exploration | 4        | Shuey                 | 3533             | Sil            | 1973           | x          | NP                     |                     |
| 3375                      | 3101       | Harrison    | Sec 11N       | Oxford               | 1        | Smith                 | 4269             | Sil            | 1974           | x          | NP                     |                     |
| 2027                      | 2278       | Harrison    | Sec 21        | Reliance             | 1        | Garrett               | 4109             | Sil            | 1969           | x          | 113-4078               | MI(s)               |
| 2358                      | 2613       | Highland    | Sec 4         | Quaker               | 1        | Brown                 | 4401             | Sil            | 1970           | x          | 3259-4401              | MI(s)               |

MUSKINGUM COUNTY

17

| Permit no.                   | Sample no. | Township  | Land division | Operator             | Well no. | Lease name       | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|------------------------------|------------|-----------|---------------|----------------------|----------|------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                              |            |           |               |                      |          |                  |                  |                |                | Geophys. logs       | Sample range (ft) |                     |
| MUSKINGUM COUNTY (continued) |            |           |               |                      |          |                  |                  |                |                |                     |                   |                     |
| 2364                         | 2614       | Highland  | Sec 4         | Quaker               | 2        | Brown            | 4354             | Sil            | 1970           | x                   | 2753-4354         | MI(s)               |
| 3152                         | 3014       | Highland  | Sec 5         | Johnston             | 1        | Prouty           | 4455             | Sil            | 1973           | x                   | 403-1635          |                     |
| 2478                         | 2849       | Highland  | Sec 8         | PB                   | 2        | Klies            | 4558             | Sil            | 1971           | x                   | NP                |                     |
| 2853                         | 2902       | Highland  | Sec 16        | Liberty              | 2        | Knicely          | 4949             | Sil            | 1972           | x                   | 1250-1318         |                     |
| 2949                         | 3264       | Highland  | Sec 19        | Eastern              | 1        | Milam            | 4650             | Sil            | 1973           | x                   | 3077-4450         | MI(s)               |
| 3214                         | 3109       | Hopewell  | Lot 19, 1Q    | American Exploration | 1        | Hill             | 3377             | Sil            | 1974           | x                   | NP                |                     |
| 3189                         | 3116       | Hopewell  | Lot 21, 1Q    | American Exploration | 1        | Glunt            | 3522             | Sil            | 1974           | x                   | NP                |                     |
| 2798                         | 2827       | Hopewell  | Lot 20, 3Q    | Tri-State            | 2        | Osborn           | 3333             | Sil            | 1972           | x                   | 2510-2910         |                     |
| 1990                         | 2202       | Hopewell  | Sec 3N        | Smith                | 1        | Boehler          | 3395             | Sil            | 1968           |                     | 1344-3380         | MI                  |
| 1820                         | 1612       | Hopewell  | Sec 7S        | Oxford               | 2        | McQuigg          | 5258             | Camb           | 1965           | x                   | 3226-3280 C       |                     |
| 3316                         | 3114       | Hopewell  | Sec 13        | American Exploration | 2        | Pound            | 3346             | Sil            | 1974           | x                   | 3072-5258         |                     |
| 135                          | 2869       | Hopewell  | Sec 14S       | Atha                 | 2        | Keffer           | 4767             | Ord            | 1940           |                     | NP                |                     |
| 2559                         | 2534       | Jackson   | Sec 16        | Kent                 | 4        | Kent             | 3136             | Sil            | 1971           |                     | 3410-4747         | MI(s)<br>MI(s)      |
| 1961                         | 2134       | Jackson   | Sec 25        | Liberty              | 1        | Kent             | 3313             | Sil            | 1968           |                     | 0-3122            |                     |
| 2547                         | 2567       | Licking   | Lot 14, 1Q    | Shrock               | C-4      | Baker & Miller   | 3339             | Sil            | 1971           |                     | 1685-3313         |                     |
| 3188                         | 3107       | Licking   | 1Q            | American Exploration | 1        | Moore            | 3304             | Sil            | 1974           | x                   | 2185-3336         |                     |
| 2941                         | 2972       | Licking   | 1Q            | American Exploration | 1        | Prior            | 3406             | Sil            | 1973           | x                   | NP                | MI(s)               |
| 3187                         | 3119       | Licking   | 4Q            | American Exploration | 1        | Bay              | 3371             | Sil            | 1973           |                     | 40-880            |                     |
| 3186                         | 3122       | Licking   | Lot 2, 4Q     | American Exploration | 1        | Pears            | 3302             | Sil            | 1973           |                     | 2226-3405         |                     |
| 3300                         | 3048       | Licking   | Lot 5, 4Q     | American Exploration | 1        | Müller           | 3433             | Sil            | 1974           | x                   | NP                |                     |
| 2164                         | 2324       | Madison   | Sec 21        | Carmax               | 1        | Frame            | 4201             | Sil            | 1969           | x                   | 45-1115           | MI(s)               |
| 2806                         | 2836       | Meigs     | Sec 23        | Guernsey             | 15-B     | Ohio Power       | 5267             | Sil            | 1972           | x                   | 540-4165          |                     |
| 2808                         | 2850       | Meigs     | Sec 24        | Guernsey             | 14-B     | Ohio Power       | 5301             | Sil            | 1972           | x                   | NP                |                     |
| 2076                         | 2302       | Monroe    | Lot 31        | Marks                | 1        | Thomas           | 4372             | Sil            | 1969           | x                   | NP                |                     |
| 2792                         | 2801       | Monroe    | Lot 34        | Liberty              | 1        | Berry            | 4268             | Sil            | 1972           | x                   | 690-1560          | MI(s)               |
| 3108                         | 2999       | Monroe    | Sec 6         | Tatum                | 1        | Rusk             | 4463             | Sil            | 1973           | x                   | 2900-4370         |                     |
| 2820                         | 2938       | Monroe    | Sec 11        | Johnston             | 1        | Kyser            | 4692             | Sil            | 1972           | x                   | 0-1521            |                     |
| 2566                         | 2848       | Monroe    | Sec 13        | Chief                | 2        | Huber            | 3000             | Dev            | 1971           | x                   | 3165-4397         |                     |
| 2613                         | 2622       | Monroe    | Sec 19        | Ballard & Cordell    | 1        | Hawthorne        | 4700             | Sil            | 1971           | x                   | NP                | MI(s)               |
| 2840                         | 2892       | Monroe    | Sec 19        | Ballard & Cordell    | 2        | Hawthorne        | 4657             | Sil            | 1972           | x                   | 3970-4700         |                     |
| 2639                         | 2640       | Monroe    | Sec 19        | Ballard & Cordell    | 2        | Holbein          | 4630             | Sil            | 1972           | x                   | 550-4630          |                     |
| 2551                         | 2556       | Monroe    | Sec 19        | Ballard & Cordell    | 1        | Welker           | 4676             | Sil            | 1971           | x                   | 1150-1300         |                     |
| 2670                         | 2701       | Monroe    | Sec 19        | Ballard & Cordell    | 1        | Welker           | 4440             | Sil            | 1972           | x                   | 1150-1300         | MI(s)               |
| 2685                         | 2743       | Monroe    | Sec 19        | Ballard & Cordell    | 2        | Welker           | 4610             | Sil            | 1972           | x                   | 3100-4670         |                     |
| 2921                         | 2891       | Monroe    | Sec 20        | Ballard & Cordell    | 1        | Brill            | 4742             | Sil            | 1972           | x                   | 1000-1150         |                     |
| 2850                         | 2919       | Monroe    | Sec 21        | Ballard & Cordell    | 2        | Dickson          | 4648             | Sil            | 1972           | x                   | 2900-4440         |                     |
| 2493                         | 2505       | Monroe    | Sec 22        | Ballard & Cordell    | 1        | Hamilton, Walker | 4660             | Sil            | 1971           | x                   | 1150-1300         | MI(s)               |
| 3178                         | 3120       | Muskingum | Lot 16, 1Q    | American Exploration | 1        | McCarthy         | 3538             | Sil            | 1973           |                     | 4478-4632         |                     |
| 3123                         | 2998       | Muskingum | Lot 33, 1Q    | Clinton              | 2        | McDonald         | 3520             | Sil            | 1973           |                     | 1150-1300         |                     |
| 3315                         | 3123       | Muskingum | Lot 11, 3Q    | American Exploration | 1        | Bixler           | 3560             | Sil            | 1974           | x                   | 3050-4630         |                     |
| 3299                         | 3108       | Muskingum | Lot 25, 3Q    | American Exploration | 1        | Edwards          | 3525             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 3143                         | 3112       | Muskingum | Lot 35, 3Q    | American Exploration | 1        | Frueh            | 3335             | Sil            | 1973           | x                   | NP                |                     |
| 3074                         | 3121       | Muskingum | Sec 6         | American Exploration | 1        | Lawler           | 3347             | Sil            | 1973           | x                   | NP                |                     |
| 3073                         | 3106       | Muskingum | Sec 6         | American Exploration | 1        | Prior            | 3333             | Sil            | 1973           | x                   | NP                |                     |
| 2883                         | 2889       | Muskingum | Sec 6         | American Exploration | 1        | Spencer          | 3294             | Sil            | 1972           |                     | 774-3289          | MI(s)               |
| 2968                         | 2923       | Muskingum | Sec 6         | American Exploration | 1        | Wine             | 3344             | Sil            | 1973           | x                   | 200-798           |                     |
| 2090                         | 2320       | Muskingum | Fr 13         | Oxford               | 1        | Long             | 3493             | Sil            | 1969           |                     | 2150-3335         |                     |
| 3140                         | 3115       | Muskingum | Sec 7         | American Exploration | 1        | Ruey             | 3359             | Sil            | 1973           | x                   | 225-3493          |                     |

## SUBSURFACE INFORMATION CATALOG

| Permit no.                   | Sample no. | Township   | Land division | Operator                | Well no. | Lease name               | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|------------------------------|------------|------------|---------------|-------------------------|----------|--------------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                              |            |            |               |                         |          |                          |                  |                |                | Geophysics logs     | Sample range (ft) |                     |
| MUSKINGUM COUNTY (continued) |            |            |               |                         |          |                          |                  |                |                |                     |                   |                     |
| 3298                         | 3050       | Muskingum  | Sec 14        | American Exploration    | 2        | McCarty                  | 3547             | Sil            | 1974           | x                   | 0-1186            | MI                  |
| 2916                         | 2905       | Muskingum  | Sec 15        | American Exploration    | 1        | Pieper                   | 3488             | Sil            | 1972           | x                   | NP                |                     |
| 435                          | 2751       | Muskingum  | Sec 21        | South Penn              | 1        | Welch                    | 3693             | Sil            | 1944           | x                   | 2375-3693         |                     |
| 2940                         | 2974       | Newton     | Sec 1         | American Exploration    | 1        | White                    | 3412             | Sil            | 1973           | x                   | NP                |                     |
| 2925                         | 2942       | Newton     | Sec 2E        | American Exploration    | 1        | Swingle                  | 3361             | Sil            | 1973           | x                   | NP                |                     |
| 3192                         | 3110       | Newton     | Sec 2W        | American Exploration    | 1        | Lincicome-Ridgley        | 3379             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 1985                         | 2176       | Newton     | Sec 3         | Oxford                  | 1        | Cornett                  | 3492             | Sil            | 1968           |                     | 5-489             |                     |
| 1950                         | 2128       | Newton     | Sec 4         | Oxford                  | 1        | Cornett                  | 3588             | Sil            | 1968           |                     | 1101-3472         |                     |
| 2837                         | 2829       | Newton     | Sec 6         | American Exploration    | 1        | Hampp                    | 3533             | Sil            | 1972           | x                   | 161-3546          |                     |
| 1999                         | 2544       | Newton     | Sec 10        | Oxford                  | 1        | Jenkins                  | 3606             | Sil            | 1968           |                     | 1882-3533         |                     |
| 2988                         | 2975       | Newton     | Sec 11W       | American Exploration    | 1        | Murphy                   | 3383             | Sil            | 1973           | x                   | NP                | MI(s)               |
| 3223                         | 3113       | Newton     | Sec 11W       | American Exploration    | 1        | Ridgley                  | 3412             | Sil            | 1974           | x                   | NP                |                     |
| 2939                         | 2976       | Newton     | Sec 27        | American Exploration    | 1        | Kimpel                   | 3565             | Sil            | 1973           | x                   | 2399-3565         |                     |
| 3303                         | 3102       | Newton     | Sec 27        | American Exploration    | 2        | Kimpel                   | 3623             | Sil            | 1974           | x                   | 223-1223          |                     |
| 3305                         | 3100       | Perry      | Sec 1         | Oxford                  | 1        | Licking View Realty      | 4378             | Sil            | 1974           | x                   | NP                |                     |
| 3083                         | 3009       | Perry      | Sec 2         | McCombs-Contrad-Barrett | 1        | Monlux                   | 4295             | Sil            | 1973           | x                   | NP                | MI(s)               |
| 2155                         | 2325       | Perry      | Sec 18        | Strach                  | 1        | Patton                   | 4230             | Sil            | 1969           |                     | 250-4230          |                     |
| 2874                         | 2883       | Rich Hill  | Sec 17        | Guernsey                | 1-C      | Blackstone-Brill         | 4738             | Sil            | 1972           | x                   | NP                |                     |
| 3094                         | 2988       | Rich Hill  | Sec 35        | Guernsey                | 7-G      | Ohio Power               | 4998             | Sil            | 1973           | x                   | NP                |                     |
| 2843                         | 2823       | Rich Hill  | Sec 36        | Chief                   | 2        | Scott                    | 5000             | Sil            | 1972           | x                   | 60-1450           |                     |
| 2864                         | 2939       | Salem      | Lot 3, 1Q     | Johnston                | 1        | White                    | 4488             | Sil            | 1972           | x                   | 3058-4368         | MI(s)               |
| 3059                         | 2996       | Salem      | Lot 10        | Wright                  | 1        | Sarbaugh                 | 4316             | Sil            | 1973           | x                   | 20-1240           |                     |
| 2552                         | 2570       | Salt Creek | Sec 17        | Oxford                  | 1        | Corder                   | 4255             | Sil            | 1971           | x                   | 2843-4255         | MI(s)               |
| 3395                         | 3128       | Salt Creek | Sec 21        | Cameron                 | 1        | Paisley                  | 4197             | Sil            | 1974           |                     | NP                |                     |
| 2835                         | 2814       | Union      | Lot 15        | Chief                   | 1        | Hardesty                 | 4703             | Sil            | 1972           | x                   | 290-4700          | MI(s)               |
| 2274                         | 2274       | Union      | Lot 23        | Cole                    | 1        | Patton                   | 4847             | Sil            | 1969           | x                   | 305-4847          |                     |
| 2028                         | 2296       | Union      | Sec 6         | Marks                   | 2        | Blackwood                | 4462             | Sil            | 1969           | x                   | 0-4455            |                     |
| 2239                         | 2345       | Washington | Lot 5, 3Q     | Pointer                 | 2        | Rogovin                  | 3809             | Sil            | 1970           | x                   | 100-3790          |                     |
| 3162                         | 3026       | Washington | 3Q            | Johnston                | 1        | Adamsville Auto Wrecking | 3798             | Sil            | 1973           | x                   | NP                |                     |
| 2782                         | 2789       | Washington | Sec 12        | Petroc                  | 5        | PHD Farms                | 3857             | Sil            | 1972           | x                   | 624-1552          | MI(s)               |
|                              |            |            |               |                         |          |                          |                  |                |                |                     | 2555-3857         |                     |
| 2227                         | 2343       | Wayne      | Sec 7E        | Oxford                  | 1        | Mann                     | 4132             | Sil            | 1970           |                     | 330-4132          | MI(s)               |
| 2786                         | 2981       | Wayne      | Sec 1N        | Tatum                   | 1        | McCutcheon               | 4091             | Sil            | 1973           | x                   | 81-1168           |                     |
| 2465                         | 2625       | Wayne      | Sec 12        | Western                 | 1        | Foster                   | 4164             | Sil            | 1971           | x                   | 100-4164          |                     |
| NOBLE COUNTY                 |            |            |               |                         |          |                          |                  |                |                |                     |                   |                     |
| 1674                         | 3073       | Beaver     | Sec 9         | Amarex                  | 1        | Cline                    | 6640             | Sil            | 1974           | x                   | NP                | MI(s)               |
| 1312                         | 2292       | Brookfield | Sec 10        | Liberty                 | 1        | Waite                    | 5340             | Sil            | 1969           | x                   | 500-5340          |                     |
| 1330                         | 2307       | Brookfield | Sec 27        | Liberty                 | 1        | McNutt                   | 5329             | Sil            | 1969           | x                   | 420-5320          |                     |
| 1299                         | 2251       | Buffalo    | Sec 17        | Liberty                 | 2        | Davis                    | 5452             | Sil            | 1969           | x                   | 0-5440            |                     |
| 1378                         | 2365       | Buffalo    | Sec 25        | Carmax                  | 1        | Drake                    | 5815             | Sil            | 1970           | x                   | 1200-5810         |                     |
| 1300                         | 2276       | Buffalo    | Sec 31        | Apex                    | 1        | Stiers                   | 5410             | Sil            | 1969           | x                   | 1140-5400         | MI(s)               |
| 1429                         | 2377       | Buffalo    | Sec 35        | East Ohio               | 1        | Snode                    | 5775             | Sil            | 1970           | x                   | 60-5760           |                     |
| 1288                         | 2386       | Elk        | Sec 24N       | Amerada                 | 1        | Noon                     | 3855             | Dev            | 1968           |                     | 10-3855           | MI                  |
| 1283                         | 2380       | Elk        | Sec 36        | Amerada                 | 1        | Thompson                 | 4735             | Dev            | 1967           | x                   | 0-4735            |                     |
| 1420                         | 2375       | Jackson    | Sec 10        | East Ohio               | 1        | Brown                    | 6000             | Sil            | 1970           | x                   | 40-6000           | MI(s)               |
|                              |            |            |               |                         |          |                          |                  |                |                |                     | 10-5875           |                     |
| 1336                         | 2318       | Jackson    | Sec 31        | Trico                   | 1        | Bush                     | 5875             | Sil            | 1969           | x                   | 40-4475           | MI(s)               |
| 1284                         | 2381       | Jefferson  | Sec 13        | Amerada                 | 1        | Schramm                  | 4475             | Dev            | 1967           | x                   | NP                |                     |
| 1576                         | 2926       | Noble      | Sec 3         | Gas Corp.               | 1        | Danford                  | 8537             | Camb           | 1972           | x                   | NP                | MI(s)               |
| 1633                         | 3084       | Noble      | Sec 9         | Gas Corp.               | 1        | Bania                    | 8548             | Camb           | 1974           | x                   | NP                |                     |
| 1509                         | 2642       | Noble      | Sec 9         | Ohio Gas                | 1        | Danford                  | 5705             | Sil            | 1972           | x                   | 1000-5700         |                     |
|                              |            |            |               |                         |          |                          |                  |                |                |                     | 0-5530            |                     |
| 1488                         | 2572       | Noble      | Sec 19        | Mid-Atlantic            | 1        | Garan                    | 5540             | Sil            | 1971           | x                   | NP                |                     |
| 1649                         | 3085       | Noble      | Sec 32        | Allegheny               | A-05     | Smith                    | 5606             | Sil            | 1973           | x                   | 4300-4435         | MI(s)               |
| 1570                         | 2940       | Olive      | Sec 15        | Mid-Atlantic            | 1        | Woodford                 | 6024             | Sil            | 1972           | x                   | 70-6030           |                     |
| 1428                         | 2376       | Olive      | Sec 16        | East Ohio               | 1        | Ball                     | 6030             | Sil            | 1970           | x                   |                   |                     |

# PERRY COUNTY

19

| Permit no.               | Sample no. | Township     | Land division | Operator      | Well no. | Lease name         | Total depth (ft) | System reached | Date completed | Information on file |                       | Missing interval(s) |
|--------------------------|------------|--------------|---------------|---------------|----------|--------------------|------------------|----------------|----------------|---------------------|-----------------------|---------------------|
|                          |            |              |               |               |          |                    |                  |                |                | Geophys. logs       | Sample range (ft)     |                     |
| NOBLE COUNTY (continued) |            |              |               |               |          |                    |                  |                |                |                     |                       |                     |
| 1523                     | 2966       | Olive        | Sec 21        | Arens         | 1        | King               | 5980             | Sil            | 1972           | x                   | NP                    |                     |
| 1550                     | 2969       | Olive        | Sec 21        | Arens         | 1        | King               | 5930             | Sil            | 1972           | x                   | NP                    |                     |
| 1551                     | 2852       | Olive        | Sec 21        | Arens         | 1        | McCauley & King    | 5921             | Sil            | 1972           | x                   | NP                    |                     |
| 1533                     | 2961       | Olive        | Sec 22        | Arens         | 1        | Crock              | 5840             | Sil            | 1972           | x                   | 880-1465<br>4000-5840 |                     |
| 1534                     | 2963       | Olive        | Sec 27        | Arens         | 1        | Radcliff-King      | 6065             | Sil            | 1972           | x                   | NP                    |                     |
| 1535                     | 2962       | Olive        | Sec 28        | Arens         | 1        | Davis & Tilton     | 5965             | Sil            | 1972           | x                   | NP                    |                     |
| 1561                     | 2954       | Olive        | Sec 28        | Arens         | 1        | Garvin & King      | 6006             | Sil            | 1974           | x                   | NP                    |                     |
| 1307                     | 2277       | Sharon       | Sec 11        | Liberty       | 1        | Foraker            | 5409             | Sil            | 1969           | x                   | 490-5400              | MI(s)               |
| 1479                     | 2552       | Sharon       | Sec 35        | Mid-Atlantic  | 1        | Morris             | 5575             | Sil            | 1971           | x                   | 3870-5575             | MI                  |
| OTTAWA COUNTY            |            |              |               |               |          |                    |                  |                |                |                     |                       |                     |
|                          | 2473       | Allen        | Sec 34        |               | P-16     | Helle              | 360              | Sil            |                |                     | 24-360 W              |                     |
|                          | 2464       | Bay          | Sec 16        |               | P-5      | Hopfinger          | 350              | Sil            |                |                     | 70-350 W              |                     |
|                          | 2469       | Benton       | Sec 34S       |               | P-12     | Sandrock           | 360              | Sil            |                |                     | 38-360 W              |                     |
| 49                       | 2126       | Carroll      | Sec 4         | Wenner        | 1        | Vellouette         | 1718             | Ord            | 1968           | x                   | 80-1718               |                     |
| 50                       | 2209       | Carroll      | Sec 8         | Fitzgerald    | 1        | Arndt              | 2287             | Ord            | 1968           | x                   | 1200-2287             |                     |
| 48                       | 2125       | Carroll      | Sec 8         | Wenner        | 1        | Hemminger          | 1492             | Ord            | 1968           | x                   | 80-1491               |                     |
|                          | 2467       | Carroll      | Sec 8         |               | P-10     | Ohio Wildlife      | 300              | Sil            |                |                     | 50-300 W              |                     |
| 44                       | 2089       | Carroll      | Sec 9         | Wenner        | 1        | Moore              | 2284             | Ord            | 1967           | x                   | 90-2263               | MI                  |
|                          | 2496       | Danbury      | Sec 9         | Standard      | 63/2     | Marblehead         | 346              | Sil            | 1955           |                     | 15-257 C              |                     |
| PAULDING COUNTY          |            |              |               |               |          |                    |                  |                |                |                     |                       |                     |
| 6                        | 2280       | Benton       | Sec 17        | Centurian     | A-1      | Lincoln National   | 1959             | Camb           | 1969           | x                   | 35-1786               | MI                  |
|                          | 2444       | Benton       | Sec 17        |               | M-30     | Lincoln National   | 330              | Sil            |                |                     | 37-330 W              |                     |
|                          | 2446       | Crane        | Sec 2         |               | M-33     | Minck              | 385              | Sil            |                |                     | 35-385 W              |                     |
|                          | 2445       | Paulding     | Sec 29        |               | M-31     | Johnson            | 360              | Sil            |                |                     | 20-360 W              |                     |
|                          | 2443       | Washington   | Sec 9         |               | M-29     | Adkins             | 360              | Sil            |                |                     | 35-360 W              |                     |
| PERRY COUNTY             |            |              |               |               |          |                    |                  |                |                |                     |                       |                     |
| 3142                     | 2756       | Bearfield    | Sec 1         | Buckeye       | 1        | Thomas             | 6190             | Camb           | 1972           | x                   | 1100-6190             | MI(s)               |
| 3216                     | 2980       | Bearfield    | Sec 13        | Buckeye       | 1        | Breeze-Hammer      | 4108             | Sil            | 1973           | x                   | NP                    |                     |
| 3317                     | 3260       | Clayton      | Sec 10        | Quaker        | 11       | Adrian             | 3456             | Sil            | 1974           | x                   | NP                    |                     |
| 3326                     | 3025       | Clayton      | Sec 12        | Noble         | 1        | Guy                | 3430             | Sil            | 1973           | x                   | NP                    |                     |
| 3351                     | 3036       | Coal         | Sec 26        | Altier        | 1        | Sunday Creek Coal  | 3663             | Sil            | 1973           | x                   | 0-1307                | MI                  |
| 3490                     | 3238       | Hopewell     | Sec 2         | Pa-Tex        | 2        | Coble              | 3073             | Sil            | 1974           | x                   | NP                    |                     |
| 3344                     | 3028       | Hopewell     | Sec 2         | Pa-Tex        | 1        | Guthrie            | 3070             | Sil            | 1973           | x                   | 906-3061              | MI(s)               |
| 3162                     | 2893       | Hopewell     | Sec 3         | Clinwell      | 1        | Van Buren          | 3001             | Sil            | 1972           | x                   | 1600-3000             | MI(s)               |
| 3046                     | 2550       | Hopewell     | Sec 7         | Reliance      | 3        | Foucht             | 2840             | Sil            | 1971           |                     | 64-2822               | MI(s)               |
| 2807                     | 2543       | Hopewell     | Sec 8         | Oxford        | 4        | Shelly             | 2800             | Sil            | 1968           |                     | 2734-2800             |                     |
| 3045                     | 2560       | Hopewell     | Sec 18        | Oxford        | 1        | Shafer             | 2879             | Sil            | 1971           |                     | 1900-2879             | MI(s)               |
| 2869                     | 2308       | Hopewell     | Sec 26        | Oxford        | 1        | Ridenour           | 3052             | Sil            | 1969           | x                   | 60-3052               | MI                  |
| 3310                     | 3010       | Jackson      | Sec 11        | Kentucky Dig. | 1        | Householder        | 5212             | Camb           | 1973           | x                   | 3024-5192             | MI(s)               |
| 2855                     | 2290       | Jackson      | Sec 22        | Kentucky Dig. | 1        | Sweeney            | 3087             | Sil            | 1969           | x                   | 635-3032              | MI(s)               |
| 3481                     | 3250       | Jackson      | Sec 24        | Kentucky Dig. | 1        | Gordon             | 5620             | Camb           | 1974           | x                   | 68-5609               | MI(s)               |
| 3141                     | 2784       | Jackson      | Sec 24        | Kentucky Dig. | 1        | Howdyshell         | 5399             | Camb           | 1972           | x                   | 3268-5379             | MI(s)               |
| 3301                     | 3031       | Jackson      | Sec 24        | Kentucky Dig. | 1        | Howdyshell-Keister | 5396?            | Camb           |                |                     | 0-5396                | MI(s)               |
| 3145                     | 2886       | Jackson      | Sec 34        | Kentucky Dig. | 2        | Adcock             | 3120             | Sil            | 1972           | x                   | 3096-3120 C           |                     |
| 3164                     | 2894       | Madison      | Sec 8         | Clinwell      | 2        | Jones              | 3301             | Sil            | 1972           |                     | NP                    |                     |
| 3057                     | 2587       | Madison      | Sec 29        | Irving        | 1        | Leckrone           | 3341             | Sil            | 1971           |                     | 2255-3341             |                     |
| 3112                     | 2768       | Madison      | Sec 30        | Dal-Ken       | 2        | Miller             | 3315             | Sil            | 1972           | x                   | 3191-3201             | MI(s)               |
| 2833                     | 2293       | Monday Creek | Sec 7         | Holl          | 2        | Bebout-Blackson    | 3012             | Sil            | 1969           |                     | 240-3012              |                     |
| 3345                     | 3030       | Monday Creek | Sec 8         | Holl          | 4        | Downhour           | 3080             | Sil            | 1973           |                     | 100-3080              |                     |
| 2380                     | 1573       | Monday Creek | Sec 8         | Kentucky Dig. | 1        | Glore              | 3095             | Sil            | 1966           |                     | 200-3095              | MI(s)               |
| 3157                     | 2888       | Monday Creek | Sec 10        | Orwig         | 5        | Mohler             |                  | Sil            |                |                     | NP                    |                     |
| 3103                     | 3013       | Monday Creek | Sec 20        | Waldron       | 2        | Smith              | 2995             | Sil            | 1973           |                     | NP                    |                     |
| 3160                     | 2786       | Monroe       | Sec 18        | Altier        | 1        | Fowle              | 3664             | Sil            | 1972           | x                   | 2637-3656             | MI(s)               |



| Permit no.                      | Sample no. | Township    | Land division           | Operator                      | Well no. | Lease name               | Total depth (ft) | System reached | Date completed | Geophys. logs | Information on file<br>Sample range (ft) | Missing interval(s) |
|---------------------------------|------------|-------------|-------------------------|-------------------------------|----------|--------------------------|------------------|----------------|----------------|---------------|------------------------------------------|---------------------|
| <b>PERRY COUNTY (continued)</b> |            |             |                         |                               |          |                          |                  |                |                |               |                                          |                     |
| 3040                            | 2540       | Monroe      | Sec 20                  | Altier                        | 1        | Benedict                 | 3743             | Sil            | 1971           | x             | 2562-3739                                | MI(s)               |
| 3453                            | 3090       | Monroe      | Sec 26                  | Altier                        | 3        | O'Farrell                | 1283             | Miss           | 1974           |               | NP                                       |                     |
| 3360                            | 3034       | Pike        | Sec 7                   | Altier                        | 4        | Johnson                  | 3270             | Sil            | 1973           |               | 200-1100                                 |                     |
| 3185                            | 2812       | Pike        | Sec 19                  | Kentucky Dig.                 | 1        | Cenci                    | 3224             | Sil            | 1972           | x             | NP                                       |                     |
| 3308                            | 3017       | Pleasant    | Sec 24                  | F. E.                         | 1        | Peabody Coal             | 5827             | Camb           | 1974           | x             | 5605-5825                                |                     |
| 3192                            | 2847       | Reading     | Sec 26E                 | Noil                          | 2        | St. Marys of the Springs | 3184             | Sil            | 1972           |               | 0-2904                                   | MI(s)               |
| 3358                            | 3032       | Reading     | Sec 26W                 | Kentucky Dig.                 | 1        | Bigham-Strait            | 4759             | Sil            | 1973           | x             | 807-855<br>2830-4732                     |                     |
| 3285                            | 2945       | Reading     | Sec 28                  | Kentucky Dig.                 | 1        | Folk                     | 2942             | Sil            | 1973           | x             | 2900-2922 C                              |                     |
| 3319                            | 3033       | Reading     | Sec 35W                 | Altier                        | 1        | Miller                   | 4718             | Camb           | 1973           | x             | 2930-4717                                | MI(s)               |
| 2981                            | 2371       | Salt Lick   | Sec 6                   | United                        | 1        | Starnier                 | 3370             | Sil            | 1970           | x             | 0-3370                                   | MI(s)               |
| <b>PICKAWAY COUNTY</b>          |            |             |                         |                               |          |                          |                  |                |                |               |                                          |                     |
| 3                               | 2672       | Deer Creek  | VMSL 4016               | McMahon-Bullington            | CP-36    | Dunlap                   | 330              | Sil            | 1963           | x             | 169-330 W                                | MI(s)               |
| 18                              | 1178       | Madison     | Sec 15                  | Ephraim                       | 1        | Brown                    | 3536             | Camb           | 1970           | x             | 69-3330                                  | MI(s)               |
|                                 | 2515       | Monroe      | VMSL 4290               | U.S. Army, Corps of Engineers | C-63-16  | Deer Creek Project       | 3022             | Camb           |                |               | 125-3022                                 |                     |
|                                 | 2671       | Monroe      |                         |                               | CP-34    |                          | 157              | Sil            |                |               | 32-157 C                                 |                     |
| 10                              | 1426       | Scioto      | VMSL 6115               | Hudson                        | 1        | Graham                   | 327              | Sil            |                |               | 65-327 W                                 |                     |
|                                 | 2670       | Scioto      | VMSL 10374              |                               | CP-31    |                          | 2700             | Camb           | 1964           | x             | 80-2700                                  | MI(s)               |
|                                 |            |             |                         |                               |          |                          | 330              | Sil            |                |               | 169-300 W                                |                     |
| <b>PIKE COUNTY</b>              |            |             |                         |                               |          |                          |                  |                |                |               |                                          |                     |
| 33                              | 1659       | Pee Pee     | VMSL 8942               | Katex                         | 1        | Easterday                | 3365             | Camb           | 1965           | x             | 30-3365                                  | MI(s)               |
| 32                              | 1395       | Seal        | Sec 19                  | Well Supervision              | 1        | Burton                   | 3386             | Camb           | 1964           | x             | 50-3386                                  | MI(s)               |
| 28                              | 1154       | Sunfish     | VMSL 13711              | Shure                         | 1        | Williams                 | 2920             | Camb           | 1963           | x             | 0-2915                                   | MI(s)               |
| <b>PORTAGE COUNTY</b>           |            |             |                         |                               |          |                          |                  |                |                |               |                                          |                     |
| 311                             | 3133       | Atwater     | Lot SW                  | East Ohio                     | 1        | Whittlesey               | 4840             | Sil            | 1964           | x             | 0-390                                    |                     |
| 500                             | 2838       | Atwater     | Lot 114                 | Moore                         | 1        | Finegan                  | 4772             | Sil            | 1971           | x             | 2740-4840                                |                     |
| 15                              | 3223       | Aurora      | Lot 11                  | Weed                          | 1        | Bissell                  | 3966             | Sil            | 1946           |               | NP                                       |                     |
|                                 | 3189       | Aurora      | Lot 18                  | Weed                          | 2        | Brandes                  | 4061             | Sil            | 1947           |               | 3834-3966                                |                     |
| 88                              | 3138       | Charlestown | Lot 2                   | East Ohio                     | 1        | Sveda                    | 4389             | Sil            | 1961           | x             | 3920-4055                                |                     |
|                                 |            |             |                         |                               |          |                          |                  |                |                |               | 4189-4389                                |                     |
| 93                              | 3137       | Charlestown | Lot 2                   | East Ohio                     | 2        | Sveda                    | 4448             | Sil            | 1961           | x             | 4215-4400                                |                     |
| 113                             | 1188       | Deerfield   | Lot 13                  | East Ohio                     | 1        | Gramer                   | 5006             | Sil            | 1962           | x             | 2870-5003                                | MI(s)               |
| 512                             | 2959       | Edinburg    | Lot 1, NE $\frac{1}{4}$ | Arens                         | 1        | Patton                   | 4740             | Sil            | 1972           | x             | 4490-4740                                |                     |
| 508                             | 2967       | Edinburg    | Lot 2, NE $\frac{1}{4}$ | Arens                         | 1        | Stumphf                  | 4730             | Sil            | 1972           | x             | NP                                       |                     |
| 506                             | 2964       | Edinburg    | Lot 3, NE $\frac{1}{4}$ | Arens                         | 1        | Yarolyn & Patton         | 4733             | Sil            | 1972           | x             | NP                                       |                     |
| 49                              | 3188       | Edinburg    | Lot 1, NW $\frac{1}{4}$ | East Ohio                     | 1        | Bailey                   | 4380             | Sil            | 1959           | x             | 4073-4380                                |                     |
| 510                             | 2985       | Edinburg    | Lot 2, SE $\frac{1}{4}$ | Arens                         | 1        | Stegh & Miner            | 4746             | Sil            | 1972           | x             | NP                                       |                     |
| 511                             | 2960       | Edinburg    | Lot 3, SE $\frac{1}{4}$ | Arens                         | 1        | Mann                     | 4793             | Sil            | 1972           | x             | NP                                       |                     |
| 509                             | 2968       | Edinburg    | Lot 3, SE $\frac{1}{4}$ | Arens                         | 1        | Oaks & Miner             | 4750             | Sil            | 1972           | x             | 4100-4750                                | MI(s)               |
| 127                             | 1180       | Edinburg    | Lot 4, SE $\frac{1}{4}$ | East Ohio                     | 1        | Wirbel                   | 4762             | Sil            | 1962           | x             | 330-640                                  |                     |
|                                 |            |             |                         |                               |          |                          |                  |                |                |               | 2750-4750                                |                     |
| 52                              | 3185       | Edinburg    | Lot 10                  | East Ohio                     | 1        | Stafford                 | 4415             | Sil            | 1959           |               | 4169-4415                                | MI(s)               |
| 502                             | 2763       | Freedom     | Lot 94                  | Pennzoil                      | 1        | Troug                    | 4590             | Sil            | 1971           | x             | 100-4590                                 |                     |
| 565                             | 3096       | Mantua      | Lot 6                   | Management Control            | 1        | Eiben                    | 4215             | Sil            | 1974           | x             | NP                                       |                     |
| 539                             | 3104       | Mantua      | Lot 11                  | Management Control            | 1        | Craemer                  | 4201             | Sil            | 1974           | x             | NP                                       |                     |
| 518                             | 3092       | Mantua      | Lot 21                  | Management Control            | 1        | Cavanaugh                | 4273             | Sil            | 1973           | x             | 320-4242                                 |                     |
| 551                             | 3146       | Mantua      | Lot 29                  | Management Control            | 1        | Turner                   | 4342             | Sil            | 1974           | x             | NP                                       |                     |
| 563                             | 3145       | Mantua      | Lot 29                  | Management Control            | 1        | Zemba                    | 4340             | Sil            | 1974           | x             | NP                                       |                     |
| 497                             | 2346       | Palmyra     | Lot 10-4                | Texaco                        | 1        | Bigelow                  | 4845             | Sil            | 1970           | x             | 0-4835                                   |                     |
| 240                             | 3135       | Randolph    | Lot 76                  | East Ohio                     | 1        | Meacham                  | 4549             | Sil            | 1963           | x             | 4370-4540                                |                     |
| 45                              | 3169       | Ravenna     | Lot 35                  | East Ohio                     | 1        | Drumhellar               | 4358             | Sil            | 1958           | x             | 4226-4355                                |                     |
| 43                              | 3130       | Ravenna     | Lot 36S                 | East Ohio                     | 2        | Shipley                  | 4352             | Sil            | 1958           | x             | 262-4340                                 |                     |
| 47                              | 3153       | Rootstown   | Lot 6                   | Wiser                         | 1        | Drotar                   | 4366             | Sil            | 1958           | x             | 4226-4358                                |                     |

| Permit no.      | Sample no. | Township       | Land division | Operator                          | Well no. | Lease name              | Total depth (ft) | System reached | Date completed | Information on file |                                                                    | Missing interval(s) |
|-----------------|------------|----------------|---------------|-----------------------------------|----------|-------------------------|------------------|----------------|----------------|---------------------|--------------------------------------------------------------------|---------------------|
|                 |            |                |               |                                   |          |                         |                  |                |                | Geophys. logs       | Sample range (ft)                                                  |                     |
| PUTNAM COUNTY   |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 56              | 2424       | Blanchard      | Sec 29        | Wallace                           | M-8      | Reynolds                | 450              | Sil            | 1974           |                     | 0-450 W<br>27-370 W<br>0-420 W<br>40-500 W<br>0-400 W              | MI                  |
|                 | 2442       | Monterey       | Sec 1         |                                   | M-28     | Siebeneck               | 370              | Sil            |                |                     |                                                                    |                     |
|                 | 2427       | Ottawa         | Sec 4         |                                   | M-11     | Schnipke                | 420              | Sil            |                |                     |                                                                    |                     |
|                 | 2698       | Ottawa         | Sec 22        |                                   | M-12     | Ottawa(city)            | 500              | Sil            |                |                     |                                                                    |                     |
|                 | 2428       | Palmer         |               |                                   |          | Hanefeld                | 400              | Sil            |                |                     |                                                                    |                     |
|                 | 3054       | Perry          | Sec 8         |                                   | 1        | Bird                    | 1393             | Ord            |                |                     | 0-1393                                                             |                     |
|                 | 2426       | Pleasant       | Sec 23        |                                   | M-10     | Schroeder               | 320              | Sil            |                |                     | 8-320 W                                                            |                     |
|                 | 2433       | Sugar Creek    | Sec 14        |                                   | M-17     | Litten                  | 300              | Sil            |                |                     | 10-300 W                                                           |                     |
| RICHLAND COUNTY |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 509             | 2639       | Blooming Grove | Sec 3         | Columbia Gas                      | 11118    | Pine                    | 1907             | Sil            | 1971           | x                   | 1418-1907                                                          | MI(s)               |
| 499             | 2565       | Blooming Grove | Sec 18        | Ohio Fuel                         | 11041    | Daup                    | 1797             | Sil            | 1971           | x                   | 129-1797                                                           |                     |
| 505             | 2632       | Blooming Grove | Sec 1         | Columbia Gas                      | 11093    | Daup                    | 1802             | Sil            | 1971           | x                   | 975-1802                                                           |                     |
| 500             | 2620       | Cass           | Sec 1         | Ohio Fuel                         | 11042    | Putt                    | 1773             | Sil            | 1971           | x                   | NP                                                                 |                     |
| 507             | 2630       | Cass           | Sec 1         | Columbia Gas                      | 11095    | Seaman                  | 1809             | Sil            | 1971           | x                   | 945-1809                                                           |                     |
| 297             | 2757       | Jackson        | Sec 3         | Wilson                            | 1        | Hohler                  | 3920             | Camb           | 1964           | x                   | 3692-3816 C                                                        | MI(s)               |
| 496             | 2532       | Plymouth       | Sec 11        | Moore                             | 1        | Fackler                 | 1359             | Sil            | 1971           | x                   | 600-1359                                                           |                     |
| 535             | 2950       | Plymouth       | Sec 13        | Moore                             | 1        | Stoodt                  | 1460             | Sil            | 1973           | x                   | 735-1452                                                           |                     |
| 522             | 2949       | Plymouth       | Sec 19        | Moore                             | 1        | Dawson                  | 1452             | Sil            | 1972           | x                   | 744-1450                                                           |                     |
| 525             | 2832       | Plymouth       | Sec 24        | Moore                             | 1        | Jones                   | 1441             | Sil            | 1972           | x                   | 0-1439                                                             |                     |
| 271             | 2260       | Plymouth       | Sec 25        | Hallion                           | 1        | Champion                | 3600             | Camb           | 1963           | x                   | 650-1800                                                           | MI(s)               |
| 524             | 2875       | Plymouth       | Sec 25        | Moore                             | 2        | Jones                   | 1465             | Sil            | 1972           | x                   | 3100-3595                                                          |                     |
| 526             | 2952       | Plymouth       | Sec 30        | Moore                             | 1        | Egner                   | 1459             | Dev            | 1972           | x                   | 505-1462                                                           |                     |
| 523             | 2948       | Plymouth       | Sec 30        | Moore                             | 1        | Romig                   | 1471             | Sil            | 1972           | x                   | 760-1459                                                           |                     |
| 501             | 2537       | Worthington    | Sec 29        | Mansfield                         | 1        | Spohn                   | 4826             | Camb           | 1971           | x                   | 708-1471<br>700-4825                                               |                     |
| SANDUSKY COUNTY |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 210             | 2483       | Ballville      | Sec 12        | Ohio Liquid Disposal              | S-24     | Kaiser                  | 160              | Sil            |                |                     | 92-160 W<br>95-108 W<br>19-280 W<br>19-250 W<br>70-340 W<br>0-2815 | MI                  |
|                 | 2482       | Ballville      | Sec 36        |                                   | S-23     | Ohio Forestry           | 108              | Sil            |                |                     |                                                                    |                     |
|                 | 2470       | Jackson        | Sec 4         |                                   | P-13     | Wasserman               | 280              | Sil            |                |                     |                                                                    |                     |
|                 | 2468       | Madison        | Sec 15        |                                   | P-11     | Ackerman                | 250              | Sil            |                |                     |                                                                    |                     |
|                 | 2494       | Rice           | Sec 6         |                                   | S-18     | Widman                  | 340              | Sil            |                |                     |                                                                    |                     |
|                 | 2745       | Riley          | Sec 26        |                                   | 1        | Ohio Liquid Disposal    | 2932             | PC             | 1972           | x                   | 0-2815                                                             |                     |
| SCIOTO COUNTY   |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 212             | 2161       | Green          | Sec 36        | U.S. Steel                        | 1        | U.S. Steel              | 5617             | PC             | 1968           | x                   | 100-5595<br>710-730 C<br>62-446                                    | MI                  |
| 229             | 3039       | Jefferson      |               | P. & C.                           | 1        | Reed                    | 582              | Miss           | 1973           | x                   |                                                                    |                     |
| SENECA COUNTY   |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 131             | 2492       | Big Spring     | Sec 2         | Brinkerhoff<br>McMahon-Bullington | S-16     | Gilg?                   | 310              | Sil            | 1965           | x                   | 95-310 W<br>1100-2127<br>115-395 W<br>20-2205<br>40-375 W          |                     |
| 150             | 1532       | Big Spring     | Sec 4         |                                   | 2        | Smith                   | 2140             | Camb           |                |                     |                                                                    |                     |
|                 | 2493       | Eden           | Sec 1         |                                   | S-17     | Ink                     | 2205             | Camb           |                |                     |                                                                    |                     |
|                 | 2090       | Liberty        | Sec 13        |                                   | 1        | McDonald                | 2205             | Camb           |                |                     |                                                                    |                     |
|                 | 2495       | Loudon         | Sec 14        |                                   | S-19     | Patchlhafer             | 2205             | Camb           |                |                     |                                                                    |                     |
|                 | 2546       | Pleasant       | Sec 3         | Columbia Gas                      | 2        | Columbia Gas            | 300              | Sil            | 1972           |                     | 1-300 W<br>96-140 W<br>54-355 W<br>29-200 W                        |                     |
|                 | 2787       | Pleasant       | Sec 3         | Columbia Gas                      | S-3      | Walton                  | 140              | Sil            |                |                     |                                                                    |                     |
|                 | 2477       | Pleasant       | Sec 32        | Robertson's                       | 2        | Seneca-Huron School Bd. | 355              | Sil            |                |                     |                                                                    |                     |
|                 | 2783       | Reed           |               |                                   |          |                         | 200              | Sil            |                |                     |                                                                    |                     |
| SHELBY COUNTY   |            |                |               |                                   |          |                         |                  |                |                |                     |                                                                    |                     |
| 2694            | 2694       | Dinsmore       | Sec 36        |                                   | SW-11    |                         | 415              | Sil            |                |                     | 170-415 W<br>107-280 W<br>72-280 W                                 |                     |
|                 | 2696       | Perry          | Sec 21        |                                   | SW-14    |                         | 280              | Sil            |                |                     |                                                                    |                     |
|                 | 2695       | Turtle Creek   | Sec 6         |                                   | SW-12    |                         | 280              | Ord            |                |                     |                                                                    |                     |

## SUBSURFACE INFORMATION CATALOG

| Permit no.   | Sample no. | Township    | Land division | Operator                 | Well no. | Lease name                       | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|--------------|------------|-------------|---------------|--------------------------|----------|----------------------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|              |            |             |               |                          |          |                                  |                  |                |                | Geophysics          | Sample range (ft) |                     |
| STARK COUNTY |            |             |               |                          |          |                                  |                  |                |                |                     |                   |                     |
| 325          | 3176       | Bethlehem   | Sec 2         | East Ohio                | 2        | Biery                            | 4612             | Sil            | 1945           |                     | 4469-4605         |                     |
| 581          | 3220       | Bethlehem   | Sec 3         | East Ohio                | 1        | Shearer                          | 4518             | Sil            | 1947           |                     | 4313-4518         |                     |
| 1373         | 2223       | Canton      | Sec 1         | Collin                   | 1        | Babitt                           | 4885             | Sil            | 1968           | x                   | NP                | MI(s)               |
| 1303         | 2217       | Canton      | Sec 1         | Collin                   | 1        | Valley Chapel Congregational Ch. | 4840             | Sil            | 1967           | x                   | 4250-4840         |                     |
| 408          | 3166       | Canton      | Sec 5         | East Ohio                | 1        | Cleveland Trust                  | 4588             | Sil            | 1946           |                     | 4418-4588?        |                     |
| 402          | 3164       | Canton      | Sec 11        | East Ohio                | 1        | Garaux                           | 4738             | Sil            | 1946           |                     | 4612-4736         |                     |
| 468-2        | 3199       | Canton      | Sec 11        | East Ohio                | 2        | Garaux                           | 4775             | Sil            | 1946           |                     | 4604-4768         |                     |
| 1274         | 2224       | Canton      | Sec 12        | Collin                   | 1        | Globe                            | 4920             | Sil            | 1967           | x                   | 4590-4840         |                     |
| 533          | 3157       | Canton      | Sec 14        | East Ohio                | 2        | Cleveland Trust                  | 4862             | Sil            | 1947           |                     | 4627-4862         |                     |
| 556          | 3207       | Canton      | Sec 15        | East Ohio                | 1        | Bauer                            | 4673             | Sil            | 1947           | x                   | 4631-4526         |                     |
| 1999         | 2265       | Canton      | Sec 25        | MB                       | 4-A      | Sponseller                       | 7699             | Camb           | 1969           | x                   | 680-7680          | MI(s)               |
| 373          | 3173       | Canton      | Sec 26        | East Ohio                | 1        | Taylor                           | 4857             | Sil            | 1946           |                     | 4622-4857         |                     |
| 20           | 3230       | Jackson     | Sec 8         | East Ohio                | 1        | Sogorka                          | 4377             | Sil            | 1936           |                     | 4192-4278         |                     |
| 826          | 3158       | Lake        | Sec 19        | East Ohio                | 1        | Harris                           | 4476             | Sil            | 1948           |                     | 4252-4474         |                     |
| 160          | 2750       | Lake        | Sec 27        | Steiner                  | 1        | Kimmel                           | 4574             | Sil            | 1940           |                     | 85-4569           |                     |
| 994          | 3182       | Lawrence    | Sec 6         | East Ohio                | 2        | Lester                           | 3934             | Sil            | 1957           | x                   | 3700-3934         | MI(s)               |
| 1020         | 3196       | Lawrence    | Sec 22        | East Ohio                | 1        | Tippel                           | 4005             | Sil            | 1959           | x                   | 3350-4005         |                     |
| 2168         | 2395       | Lawrence    | Sec 24        | East Ohio                | 1        | Neiderl                          | 4080             | Sil            | 1970           | x                   | 0-4020            |                     |
| 1026         | 3211       | Lawrence    | Sec 36        | East Ohio                | 1        | Lindsay                          | 4243             | Sil            | 1959           | x                   | 3920-4243         | MI(s)               |
| 1741         | 2211       | Nimishillen | Sec 5         | Zenith                   | 1        | Eckroate                         | 4975             | Sil            | 1968           |                     | 300-4970          | MI(s)               |
| 1419         | 2227       | Nimishillen | Sec 21        | Collin                   | 1        | Miller                           | 4954             | Sil            | 1968           | x                   | 4590-4940         | MI(s)               |
| 1186         | 2141       | Nimishillen | Sec 31        | Ridge                    | 1        | Regopoulos                       | 4923             | Sil            | 1967           | x                   | 2710-4923         | MI(s)               |
| 1820         | 2230       | Nimishillen | Sec 33        | Mustang                  | 1        | Rebillot                         | 5026             | Sil            | 1968           | x                   | 4769-4967         |                     |
| 1859         | 2210       | Nimishillen | Sec 34        | S & S                    | 1        | McKimm                           | 5080             | Sil            | 1968           | x                   | 0-5070            | MI                  |
| 1193         | 2226       | Osnaburg    | Sec 6         | Collin                   | 1        | Evergreen Park                   | 4890             | Sil            | 1967           | x                   | 4240-4890         | MI(s)               |
| 1140         | 2231       | Osnaburg    | Sec 7         | Tra-Kay                  | 1        | Pandora                          | 4992             | Sil            | 1967           |                     | 50-900            | MI(s)               |
| 1221         | 2084       | Osnaburg    | Sec 8         | Zenith                   | 2        | Schrock                          | 5000             | Sil            | 1967           | x                   | 690-928           |                     |
| 2456         | 3003       | Osnaburg    | Sec 10        | Quaker                   | 1-0      | Walker                           | 5162             | Sil            | 1973           | x                   | NP                |                     |
| 2459         | 3064       | Osnaburg    | Sec 10        | Quaker                   | 2-0      | Walker                           | 5279             | Sil            | 1974           | x                   | NP                |                     |
| 2495         | 3058       | Osnaburg    | Sec 15        | Quaker                   | 2-0      | Gallagher                        | 5187             | Sil            | 1973           | x                   | NP                |                     |
| 1163         | 2051       | Osnaburg    | Sec 17        | Mansfield                | 2-A      | Sherer                           | 5080             | Sil            | 1967           | x                   | 230-1400          | MI(s)               |
| 1832         | 2216       | Osnaburg    | Sec 20        | Vaught                   | 1        | King                             | 5113             | Sil            | 1968           | x                   | 3320-5040         |                     |
| 1287         | 2143       | Osnaburg    | Sec 20        | XIT                      | 2        | Varian                           | 5106             | Sil            | 1967           | x                   | 750-4980          |                     |
| 2095         | 2615       | Osnaburg    | Sec 29        | Quaker                   | 1        | Drevon                           | 5130             | Sil            | 1970           | x                   | 4865-5106         | MI(s)               |
| 1467         | 2212       | Osnaburg    | Sec 30        | Zenith                   | 3        | Swartz                           | 5162             | Sil            | 1968           | x                   | 700-5150          | MI                  |
| 1648         | 2105       | Paris       | Sec 5         | Mansfield                | 1        | Oakes                            | 5386             | Sil            | 1968           | x                   | 5000-5365         | MI(s)               |
| 1563         | 2133       | Paris       | Sec 19        | Van                      | 1        | Troescher                        | 5245             | Sil            | 1968           | x                   | 670-5245          |                     |
| 80           | 3141       | Perry       | Sec 26        | Burner, Morgan, Stephens | 1        | Kropf                            | 4717             | Sil            | 1937           |                     | 4551-4717         |                     |
| 783          | 3195       | Perry       | Sec 28        | East Ohio                | 1        | Miller                           | 4465             | Sil            | 1948           |                     | 4255-4465         |                     |
| 1010         | 3152       | Perry       | Sec 28        | East Ohio                | 2        | Miller                           | 4393             | Sil            | 1958           | x                   | 4096-4393         |                     |
| 1021         | 3224       | Perry       | Sec 29        | East Ohio                | 1        | Dielhenn                         | 4347             | Sil            | 1959           | x                   | 4015-4347         |                     |
| 1003         | 3170       | Perry       | Sec 33        | East Ohio                | 2        | Stark                            | 4380             | Sil            | 1958           | x                   | 4075-4380         |                     |
| 327          | 3236       | Perry       | Sec 35        | East Ohio                | 1        | Bozrich                          | 4646             | Sil            | 1945           |                     | 4429-4642         |                     |
| 310          | 3175       | Perry       | Sec 36        | East Ohio                | 1        | Knight                           | 4607             | Sil            | 1945           |                     | 4465-4606         |                     |
| 346          | 3202       | Pike        | Sec 9         | East Ohio                | 1        | Alexander                        | 4755             | Sil            | 1945           |                     | 4536-4753         |                     |
| 150          | 3243       | Plain       | Sec 14        | East Ohio                | 1        | Royer                            | 4673             | Sil            | 1939           |                     | NP                |                     |
| 107          | 3165       | Plain       | Sec 14        | East Ohio                | 1        | Spangler & Martin                | 4720             | Sil            | 1938           |                     | 4532-4720         |                     |
| 372          | 3184       | Plain       | Sec 27        | East Ohio                | 1        | Hauser                           | 4649             | Sil            | 1946           |                     | 4555-4636         |                     |
| 406          | 3235       | Plain       | Sec 31        | East Ohio                | 1        | Slicker                          | 4681             | Sil            | 1946           |                     | 4425-4681         |                     |
| 531          | 3180       | Plain       | Sec 31        | East Ohio                | 2        | Tarr                             | 4571             | Sil            | 1946           |                     | 4430-4560         |                     |
| 422          | 3183       | Plain       | Sec 31        | East Ohio                | 1        | Welch                            | 4590             | Sil            | 1946           |                     | 4470-4590         |                     |
| 447          | 3191       | Plain       | Sec 32        | East Ohio                | 2        | Ink                              | 4604             | Sil            | 1946           |                     | 4405-4604         |                     |
| 380          | 3234       | Plain       | Sec 32        | East Ohio                | 1        | Schneider                        | 4600             | Sil            | 1946           |                     | 4457-4585         |                     |
| 2001         | 2289       | Sandy       | Sec 3         | Texaco                   | 1        | Rarric                           | 8000             | Camb           | 1969           | x                   | 6830-8000         | MI(s)               |
| 1812         | 2155       | Sandy       | Sec 8         | Quaker                   | 1        | McCall                           | 5133             | Sil            | 1968           | x                   | 850-5125          |                     |

| Permit no.                      | Sample no. | Township      | Land division           | Operator                  | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Geophys. logs | Information on file | Missing interval(s) |
|---------------------------------|------------|---------------|-------------------------|---------------------------|----------|-----------------------|------------------|----------------|----------------|---------------|---------------------|---------------------|
|                                 |            |               |                         |                           |          |                       |                  |                |                |               | Sample range (ft)   |                     |
| <b>STARK COUNTY (continued)</b> |            |               |                         |                           |          |                       |                  |                |                |               |                     |                     |
| 854                             | 3204       | Sandy         | Sec 17                  | East Ohio                 | 1        | Garaux                | 5113             | Sil            | 1949           |               | 4852-5113           |                     |
| 1171-1A                         | 2142       | Sandy         | Sec 20                  | Tod                       | 1-A      | Garaux                | 5045             | Sil            | 1967           |               | 3220-5040           |                     |
| 2407                            | 2930       | Sugar Creek   | Sec 5S                  | Moore                     | 1        | Schlabach             | 4390             | Sil            | 1973           | x             | 4100-4320           |                     |
| 2272                            | 2821       | Sugar Creek   | Sec 17                  | Moore                     | 1        | Wefler                | 4334             | Sil            | 1972           | x             | 4005-4202           |                     |
| 2376                            | 2920       | Sugar Creek   | Sec 26                  | Management Control        | 1        | Harold                | 4321             | Sil            | 1972           | x             | NP                  |                     |
| 2356                            | 2874       | Sugar Creek   | Sec 28                  | Moore                     | 1        | Bontrager             | 4135             | Sil            | 1972           | x             | NP                  |                     |
| 2219                            | 2531       | Washington    | Sec 14                  | Quaker                    | 1        | Moser                 | 5412             | Sil            | 1971           | x             | 0-5390              | MI(s)               |
| 2300                            | 2796       | Washington    | Sec 14                  | Quaker                    | 1        | Reynolds              | 5447             | Sil            | 1972           | x             | 740-940             |                     |
| 2562                            | 3259       | Washington    | Sec 16                  | Pominex                   | 1        | Frederick             | 5330             | Sil            | 1974           | x             | 3250-5447           | MI(s)               |
| 2437                            | 3018       | Washington    | Sec 23                  | Quaker                    | 1        | Aufance               | 5493             | Sil            | 1973           | x             | NP                  |                     |
| 2404                            | 3020       | Washington    | Sec 23                  | Quaker                    | 1        | Brugger-Moser         | 5453             | Sil            | 1973           | x             | NP                  |                     |
| <b>SUMMIT COUNTY</b>            |            |               |                         |                           |          |                       |                  |                |                |               |                     |                     |
| 67                              | 3245       | Bath          | Lot 20                  | Hoehn                     | 1        | Baughman              | 3514             | Sil            | 1944           |               | 3381-3514           |                     |
|                                 | 3198       | Bath          | Lot 41                  | Wiser                     | 1        | Rockwell              | 3628             | Sil            | 1945           |               | 3488-3628           |                     |
| 195                             | 3181       | Bath          | Lot 79                  | Brendel                   | 1        | Mull                  | 3543             | Sil            | 1945           |               | 3387-3543           |                     |
| 443                             | 3213       | Boston        | Lot 20                  | Wade                      | 1        | Solpa                 | 3695             | Sil            | 1952           |               | 3492-3695           |                     |
|                                 | 2275       | Coventry      | Lot 4                   | Diamond Crystal           | 50       | Akron(city)           | 3512             | Sil            | 1969           | x             | 130-2840            | MI(s)               |
| 313                             | 3218       | Franklin      | Sec 17                  | East Ohio                 | 1        | Kiminecz              | 3945             | Sil            | 1956           |               | 3633-3871           |                     |
| 332                             | 3186       | Franklin      | Sec 17                  | East Ohio                 | 1        | Ringer                | 3853             | Sil            | 1957           | x             | 3597-3850           |                     |
|                                 | 3246       | Richfield     | Sec 3                   | Brendel                   | 1        | Matejka               | 3615             | Sil            | 1945           |               | 3477-3605           |                     |
| 169                             | 3233       | Richfield     | Sec 6                   | Wiser                     | 3        | Stauffer              | 2100             | Dev            | 1944           |               | 2065-2100           | MI                  |
| 102                             | 3194       | Stow          | Lot 72                  | East Ohio                 | 1        | Kirkhart              | 3943             | Sil            | 1948           |               | 2463-3937           |                     |
| <b>TRUMBULL COUNTY</b>          |            |               |                         |                           |          |                       |                  |                |                |               |                     |                     |
| 13                              | 2259       | Bloomfield    | Lot 148                 | Northern                  | 1-A      | Fandrich              | 4068             | Sil            | 1960           |               | 2500-4055           | MI                  |
| 35                              | 2909       | Braceville    | Sec 2                   | Moore                     | 1        | Crays                 | 4400             | Sil            | 1972           | x             | 3975-4400           | MI                  |
| 34                              | 2825       | Braceville    | Sec 7                   | Moore                     | 1        | Garland               | 4441             | Sil            | 1972           | x             | 2366-4441           |                     |
| 39                              | 2943       | Braceville    | Sec 24                  | Columbia Gas              | 1        | Sherman               | 4607             | Sil            | 1972           | x             | 4410-4567           |                     |
| 71                              | 2907       | Braceville    | Sec 25                  | Columbia Gas              | 1        | Gill                  | 4584             | Sil            | 1974           | x             | NP                  |                     |
| 50                              | 2873       | Champion      | T5N, R4W                | Ohio Industrial Energy    | 1        | Brainard & McAllister | 4500             | Sil            | 1972           | x             | 0-560               | MI(s)               |
| 172                             | 3248       | Fowler        | Lot 25                  | Columbia Gas              | 1        | Summers-Edwards       | 4850             | Sil            | 1975           | x             | 2500-4460           | MI(s)               |
| 162                             | 3249       | Fowler        | Lot 47                  | Columbia Gas              | 1        | Conley-Kloboves       | 4780             | Sil            | 1975           | x             | 504730              | MI(s)               |
| 22                              | 2351       | Gustavus      | Lot 74                  | Murphy                    | 1        | Logan                 | 4291             | Sil            | 1970           | x             | NP                  |                     |
| 23                              | 2393       | Gustavus      | Lot 82                  | American Minerals         | 1        | Clisby                | 4160             | Sil            | 1971           | x             | 2900-4290           | MI(s)               |
| 70                              | 2906       | Lordstown     | Lot 39                  | Columbia Gas              | 1        | Kinnama               | 4690             | Sil            | 1973           | x             | 0-4690              | MI(s)               |
| 49                              | 2870       | Lordstown     | Lot 74                  | Columbia Gas              | 1        | Klupik & Johnson      | 4747             | Sil            | 1972           | x             | NP                  |                     |
| 48                              | 2866       | Lordstown     | Lot 75                  | Columbia Gas              | 1        | Klupik                | 4783             | Sil            | 1974           | x             | NP                  |                     |
| 38                              | 2877       | Lordstown     | Lot 78                  | Atlas                     | 1        | Salva                 | 4883             | Sil            | 1972           | x             | 100-500             |                     |
| 40                              | 2807       | Newton        | Sec 14                  | Columbia Gas              | 11237    | Allman                | 4656             | Sil            | 1972           | x             | 2820-4880           | NP                  |
| 58                              | 2868       | Newton        | Sec 15                  | Columbia Gas              | 11282    | Weigand               | 4685             | Sil            | 1972           | x             | NP                  |                     |
| 61                              | 2872       | Newton        | Sec 24                  | Columbia Gas              | 11295    | Sinn                  | 4778             | Sil            | 1972           | x             | NP                  |                     |
| 26                              | 2619       | Newton        | Sec 25                  | Moore                     | 1        | Beggar                | 4782             | Sil            | 1971           | x             | 32-4770             | MI(s)               |
| 60                              | 2867       | Newton        | Sec 25                  | Columbia Gas              | 11297    | Stanowski             | 4820             | Sil            | 1972           | x             | 4110-4810           | MI                  |
| 208                             | 3271       | Weathersfield | Lot 9                   | Mahoning-Jones & Laughlin | 2        | Jones & Laughlin      | 4889             | Sil            | 1974           | x             | NP                  |                     |
| <b>TUSCARAWAS COUNTY</b>        |            |               |                         |                           |          |                       |                  |                |                |               |                     |                     |
| 1060                            | 2103       | Auburn        | Sec 18W                 | Quaker                    | 1        | Miller                | 4561             | Sil            | 1968           | x             | 1600-4560           | MI(s)               |
| 1091                            | 2263       | Auburn        | Sec 18W                 | Quaker                    | 1        | Troyer                | 4510             | Sil            | 1968           | x             | 2900-4510           | MI(s)               |
| 1766                            | 2910       | Bucks         | Sec 16                  | Columbia Gas              | 11301    | Regula                | 4390             | Sil            | 1973           | x             | 100-4390            | MI(s)               |
| 1061                            | 2149       | Clay          | Lot 12, T6N, R2W        | Shelby                    | 28       | Zimmerman             | 1239             | Miss           | 1968           |               | 130-1239            |                     |
|                                 | 2036       | Clay          | Lot 14, T7N, R2W        | Stocker & Siller          | 1        | Mizer                 | 7778             | Camb           | 1965           | x             | 7646-7688 C         |                     |
| 1128                            | 2309       | Clay          | Lot 15, Gnadenhutzen Tr | Midterra                  | 1        | Water Street Realty   | 5071             | Sil            | 1973           | x             | 290-5068            | MI(s)               |
| 107                             | 2406       | Dover         | Lot 3, 1Q               | Columbian Carbon          | 1        | Bair                  | 4766             | Sil            | 1941           | x             | 0-4766              |                     |
| 176                             | 3247       | Dover         | Lot 21, 1Q              | East Ohio                 | 1        | Seikel                | 4897             | Sil            | 1944           |               | 4583-4896           |                     |

## SUBSURFACE INFORMATION CATALOG

| Permit no.                    | Sample no. | Township    | Land division | Operator          | Well no. | Lease name                               | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|-------------------------------|------------|-------------|---------------|-------------------|----------|------------------------------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                               |            |             |               |                   |          |                                          |                  |                |                | Geophys. logs       | Sample range (ft) |                     |
| TUSCARAWAS COUNTY (continued) |            |             |               |                   |          |                                          |                  |                |                |                     |                   |                     |
| 72-1                          | 3201       | Fairfield   | Lot 7         | East Ohio         | 1        | Reeves                                   | 5174             | Sil            | 1940           |                     | 3973-5068         |                     |
| 1372                          | 2573       | Franklin    | Lot 7, 1Q     | Moore             | 1        | Nolan                                    | 4569             | Sil            | 1971           | x                   | 4348-4565         |                     |
| 7                             | 2753       | Franklin    | Lot 9         | East Ohio         | 1        | Feucht                                   | 4527             | Sil            | 1936           |                     | 2370-4527         |                     |
| 115                           | 2407       | Franklin    | Sec 9         | Columbian Carbon  | 1        | Welsh                                    | 4528             | Sil            | 1941           | x                   | 0-4528            |                     |
| 1635                          | 2846       | Goshen      | Lot 3, 4Q     | Appalachian       | 1        | Wardell                                  | 5052             | Sil            | 1972           |                     | NP                |                     |
| 1661                          | 2810       | Goshen      | Lot 14, 4Q    | Waldron           | 2        | Welling                                  | 4838             | Sil            | 1972           | x                   | 1500-4790         | MI(s)               |
| 1668                          | 2804       | Jefferson   | Lot 4, 1Q     | Ballard & Cordell | 3        | Kaiser                                   | 4820             | Sil            | 1972           | x                   | 620-1840          |                     |
| 1561                          | 2705       | Jefferson   | Lot 33, 1Q    | Ballard & Cordell | 1        | Beitzel                                  | 4880             | Sil            | 1972           | x                   | 3080-4810         |                     |
| 32                            | 3156       | Lawrence    | Sec 17        | Brendel           | 1        | Robinson                                 | 4721             | Sil            | 1938           | x                   | 1020-1250         |                     |
| 1161                          | 2337       | Mill        | Lot 12N       | Appalachian       | 1        | Gundy                                    | 5275             | Sil            | 1969           | x                   | 3700-4850         | MI(s)               |
| 1617                          | 2774       | Mill        | Sec 29        | Collins           | 1        | Duso                                     | 5750             | Sil            | 1972           | x                   | 100-1070          | MI(s)               |
| 1676                          | 2845       | Rush        | Sec 14        | Stocker & Stitler | 2        | Edwards                                  | 5512             | Sil            | 1972           | x                   | 0-5750            | MI                  |
| 1373                          | 2527       | Salem       | Lot 23        | Pointer           | 1        | Stocker                                  | 4848             | Sil            | 1971           | x                   | NP                | MI(s)               |
| 1164                          | 2547       | Salem       | Sec 8         | Western           | 1        | Buck                                     | 4705             | Sil            | 1969           | x                   | 0-4700            | MI(s)               |
| 1093                          | 2262       | Sandy       | Lot 3, 1Q     | Nye               | 2-A      | Rice                                     | 4960             | Sil            | 1968           | x                   | 0-4960            | MI(s)               |
| 146                           | 2408       | Sandy       | Lot 20, 1Q    | Columbian Carbon  | 1        | Muskingum Watershed Conservancy District | 4848             | Sil            | 1942           |                     | 0-4848            |                     |
| 23                            | 3148       | Sandy       | Lot 49, 3Q    | East Ohio         | 1        | Bernhardt                                | 4808             | Sil            | 1932           |                     | 4670-4800         | MI(s)               |
| 36                            | 3150       | Sandy       | Lot 51, 3Q    | East Ohio         | 1        | Duer                                     | 4819             | Sil            | 1938           |                     | 4757-4819         |                     |
| 1145                          | 2340       | Sugar Creek | Sec 22        | Alliance          | 1        | Rowe                                     | 6968             | Camb           | 1969           | x                   | 10-6960           | MI(s)               |
| 1208                          | 2352       | Union       | Sec 10        | Mutual            | 2        | Leatherman                               | 5481             | Sil            | 1970           | x                   | 10-1240           |                     |
| 1936                          | 3006       | Warren      | Sec 28        | Quaker MB         | 1        | Mizer                                    | 5216             | Sil            | 1973           | x                   | 3610-5480         |                     |
| 1609                          | 2767       | Warren      | Sec 30        |                   | 2        | McIntosh                                 | 5238             | Sil            | 1972           | x                   | NP                |                     |
| 1011                          | 2164       | Warren      | Sec 33        | Mutual            | 2        | Ripley-Pyle                              | 5400             | Sil            | 1968           | x                   | 3480-3490         | MI(s)               |
| 1937                          | 3002       | Warren      | Sec 34        | Quaker            | 2        | Mizer                                    | 5214             | Sil            | 1973           | x                   | 4500-5230         |                     |
| 1106                          | 2263       | Warwick     | 3Q            | XII               | 1        | Larson                                   | 5089             | Sil            | 1968           | x                   | 80-5400           |                     |
|                               |            |             |               |                   |          |                                          |                  |                |                |                     | 640-1340          |                     |
|                               |            |             |               |                   |          |                                          |                  |                |                |                     | 2230-5080         |                     |
| 1048                          | 2165       | Warwick     | Sec 10        | East Ohio         | 1-C      | Cross Creek Coal                         | 5078             | Sil            | 1968           | x                   | 135-5077          |                     |
| 159                           | 2402       | Warwick     | Sec 11        | Benedum-Trees     | 1        | Porcher                                  | 5085             | Sil            | 1953           |                     | 190-5017          |                     |
| 1388                          | 2535       | Washington  | Lot 18, 1Q    | Tri-State         | 1        | Hursey                                   | 5166             | Sil            | 1971           | x                   | 4850-5000         | MI(s)               |
| 1209                          | 2353       | Washington  | Lot 17, 3Q    | Pointer           | 1        | Snyder                                   | 5267             | Sil            | 1970           | x                   | 100-5240          | MI(s)               |
| 1368                          | 2555       | Washington  | Lot 22, 3Q    | Jones             | 1        | Decker                                   | 3421             | Sil            | 1971           | x                   | 422-3421          | MI(s)               |
| 1386                          | 2534       | Washington  | Sec 12        | Tri-State         | 1        | Hursey                                   | 5203             | Sil            | 1971           | x                   | 700-5200          | MI(s)               |
| 1660                          | 2884       | York        | Sec 6         | Ballard & Cordell | 2        | Kaiser                                   | 5050             | Sil            | 1972           | x                   | 150-1800          |                     |
| 1551                          | 2702       | York        | Sec 6         | Ballard & Cordell | 1        | Widder & Gelchey                         | 4720             | Sil            | 1972           | x                   | 3300-5050         | MI(s)               |
| UNION COUNTY                  |            |             |               |                   |          |                                          |                  |                |                |                     |                   |                     |
| 7                             | 1235       | Allen       | VMSL 3749     | Lauck             | 1        | Giles                                    | 2190             | Camb           | 1963           | x                   | 154-2178          | MI(s)               |
|                               | 2982       | Allen       |               |                   | CP-12    | Ohio Transp. Research Center             | 315              | Sil            |                |                     | NP W              |                     |
|                               | 2657       | Glaibourne  | VMSL 5505     |                   | CP-21    |                                          | 293              | Sil            |                |                     | 35-315 W          |                     |
|                               | 2660       | Dover       | VMSL 6420     |                   | CP-23    |                                          | 355              | Sil            |                |                     | 0-293 W           |                     |
|                               | 2662       | Jerome      |               |                   |          |                                          |                  |                |                |                     | 62-355 W          |                     |
|                               | 2658       | Liberty     | VMSL 4265     |                   | CP-16    | Keirns                                   | 350              | Sil            |                |                     | 35-350 W          |                     |
|                               | 2659       | Mill Creek  | VMSL 6543     |                   | CP-20    |                                          | 350              | Sil            |                |                     | 28-350 W          |                     |
|                               | 2661       | Union       | VMSL 10971    |                   | CP-22    |                                          | 235              | Sil            |                |                     | 0-235 W           |                     |
|                               | 2656       | Washington  | VMSL 10971    |                   | CP-11    |                                          | 320              | Sil            |                |                     | 30-320 W          |                     |
| 38                            | 2551       | Washington  | VMSL 10971    | Ephraim           | 1        | Brown Hat Lands                          | 2224             | Camb           | 1971           | x                   | 40-2220           | MI(s)               |
| VAN WERT COUNTY               |            |             |               |                   |          |                                          |                  |                |                |                     |                   |                     |
| 44                            | 2441       | Jackson     | Sec 1         | West Ohio         | M-27     | Thatcher                                 | 260              | Sil            | 1973           | x                   | 30-260 W          | MI(s)               |
|                               | 2936       | Jennings    | Sec 28        |                   | S        | Miller                                   | 3242             | PC             |                |                     | 0-3242            |                     |
|                               | 2496       | Jennings    | Sec 30        |                   | M-19     | Bassitt                                  | 360              | Sil            |                |                     | 50-360 W          |                     |

| Permit no.                  | Sample no.           | Township                   | Land division                                | Operator              | Well no.             | Lease name                | Total depth (ft)  | System reached    | Date completed | Information on file |                        | Missing interval(s)               |
|-----------------------------|----------------------|----------------------------|----------------------------------------------|-----------------------|----------------------|---------------------------|-------------------|-------------------|----------------|---------------------|------------------------|-----------------------------------|
|                             |                      |                            |                                              |                       |                      |                           |                   |                   |                | Geophysics logs     | Sample range (ft)      |                                   |
| VAN WERT COUNTY (continued) |                      |                            |                                              |                       |                      |                           |                   |                   |                |                     |                        |                                   |
|                             | 2438<br>2439<br>2440 | Pleasant<br>Tully<br>Union | Sec 33<br>Sec 34<br>Sec 8                    |                       | M-24<br>M-25<br>M-26 | Rager<br>Friedly<br>Flock | 340<br>280<br>258 | Sil<br>Sil<br>Sil |                |                     |                        | 147-340 W<br>37-280 W<br>10-258 W |
| VINTON COUNTY               |                      |                            |                                              |                       |                      |                           |                   |                   |                |                     |                        |                                   |
| 370                         | 2616                 | Elk                        | Sec 3                                        | Quaker                | 1                    | Engle                     | 2860              | Sil               | 1971           | x                   | 754-894<br>2366-2860   |                                   |
| 369                         | 2508                 | Elk                        | Sec 18                                       | Quaker                | 1                    | Waldron                   | 2747              | Sil               | 1971           |                     | 60-2747                |                                   |
| 384                         | 3041                 | Knox                       | Sec 2                                        | Adams                 | 3                    | McCathren                 | 1301              | Miss              | 1974           | x                   | 0-1301                 | MI(s)                             |
| 352                         | 2295                 | Madison                    | Sec 29                                       | Carpenter             | 1                    | McClaughlin               | 1216              | Miss              | 1969           |                     | 0-1182                 | MI(s)                             |
| 358                         | 2336                 | Madison                    | Sec 35                                       | Uhl                   | 1                    | Webb                      | 998               | Miss              | 1969           |                     | 0-998                  |                                   |
| 377                         | 2914                 | Richland                   | Sec 4S                                       | Bell                  | 1                    | Verkamp                   | 690               | Miss              | 1972           |                     | 47-690                 |                                   |
| 378                         | 2915                 | Richland                   | Sec 4S                                       | Bell                  | 1-A                  | Verkamp                   | 2366              | Sil               | 1972           |                     | 1528-2366              |                                   |
| 349                         | 2153                 | Swan                       | Sec 3                                        | Kentucky Dig.         | 1                    | Cherry                    | 2957              | Sil               | 1968           | x                   | 537-2932               | MI(s)                             |
| 338                         | 2026                 | Vinton                     | Sec 35                                       | Midwest               | 2                    | State of Ohio             | 2277              | Dev               | 1967           | x                   | 125-2277               |                                   |
| WASHINGTON COUNTY           |                      |                            |                                              |                       |                      |                           |                   |                   |                |                     |                        |                                   |
| 3272                        | 2355                 | Adams                      | Lot 29, Allot between Rainbow and Water-ford | Berry                 | 1                    | Offenbergert              | 6065              | Sil               | 1970           | x                   | 1090-6065              | MI(s)                             |
| 3195                        | 2207                 | Aurelius                   | Sec 21                                       | Cryton                | 22                   | Stephens                  | 1780              | Miss              | 1968           |                     | 1200-1780              | MI(s)                             |
| 1582                        | 2729                 | Barlow                     | Sec 6                                        | Oxford                | 1                    | McCoy                     | 4345              | Dev               | 1952           |                     | 4200-4345              |                                   |
| 3109                        | 2114                 | Barlow                     | Sec 8                                        | Gittleman             | 1                    | Maze                      | 1892              | Miss              | 1967           |                     | 909-1877               |                                   |
| 3108                        | 2112                 | Barlow                     | Sec 13                                       | Gittleman             | 2                    | McVicar                   | 2005              | Miss              | 1967           |                     | 800-1996               | MI                                |
| 1522                        | 2728                 | Belpre                     | Sec 30                                       | Putnam                | 1                    | Walker                    | 4134              | Dev               | 1952           |                     | 1168-2829<br>3985-4134 |                                   |
| 1698                        | 2736                 | Belpre                     | Lot 51                                       | Putnam                | 1                    | Curtis                    | 5647              | Sil               | 1952           |                     | 4045-5398              | MI                                |
| 1695                        | 2742                 | Belpre                     | Lot 55                                       | Putnam                | 1                    | Dunfee                    | 4309              | Dev               | 1953           |                     | 75-926                 |                                   |
| 1700                        | 2732                 | Belpre                     | Lot 58                                       | Putnam                | 1                    | Oakes                     | 4134              | Dev               | 1952           |                     | 4183-4309              |                                   |
| 1519                        | 2727                 | Belpre                     | Lot 62                                       | Putnam                | 1                    | Bell                      | 4097              | Dev               | 1952           |                     | 4026-4134<br>940-4097  |                                   |
| 1545                        | 2733                 | Belpre                     | Lot 62                                       | Putnam                | 2                    | Oakes                     | 4114              | Dev               | 1952           |                     | 3997-4114              | MI                                |
| 1698                        | 2734                 | Belpre                     | Lot 64                                       | Putnam                | 1                    | Oakes                     | 4123              | Dev               | 1953           |                     | 2204-4123              | MI(s)                             |
| 3311                        | 2415                 | Belpre                     | Lot 66                                       | Smith                 | 1                    | Lamp                      | 5734              | Sil               | 1971           | x                   | 120-5710               |                                   |
| 1444                        | 2740                 | Belpre                     | Lot 101.3                                    | Putnam                | 1                    | Brethauer                 | 4143              | Dev               | 1952           |                     | 4107-4140              | MI(s)                             |
| 1488                        | 2713                 | Belpre                     | Lot 101.3                                    | Putnam                | 1                    | Williams                  | 4173              | Dev               | 1952           |                     | 217-4153               | MI(s)                             |
| 1694                        | 2719                 | Belpre                     | Lot 101.4                                    | Putnam                | 1                    | Holdren                   | 4150              | Dev               | 1953           |                     | 1385-4035              |                                   |
| 1696                        | 2706                 | Belpre                     | Lot 101.5                                    | Putnam                | 1                    | Lipps                     | 4146              | Dev               | 1953           |                     | 945-3975               |                                   |
| 1699                        | 2741                 | Belpre                     | Lot 101.9                                    | Putnam                | 1                    | Brethauer                 | 4080              | Dev               | 1952           |                     | 3963-4080              | MI(s)                             |
| 1703                        | 2738                 | Belpre                     | Lot 102.8                                    | Putnam                | 1                    | Logue                     | 4025              | Dev               | 1952           |                     | 435-4025               | MI(s)                             |
| 3083                        | 2121                 | Dunham                     | Sec 12                                       | Gittleman             | 1                    | Male                      | 2032              | Dev               | 1967           |                     | 1200-2032              | MI(s)                             |
| 3002                        | 2122                 | Dunham                     | Sec 28E                                      | Gittleman             | 1                    | Morris                    | 1998              | Miss              | 1966           |                     | 1910-197               |                                   |
| 3029                        | 2117                 | Dunham                     | Sec 29E                                      | Gittleman             | 1                    | Haythorne                 | 2355?             | Dev               | 1968           |                     | 1100-2355              | MI(s)                             |
| 3056                        | 2118                 | Dunham                     | Sec 29E                                      | Ohio East             | 1                    | Nutter                    | 2140              | Miss              | 1967           |                     | 1123-2136              | MI(s)                             |
| 1551                        | 2542                 | Grandview                  | Sec 6                                        | Oxford                | 1                    | Adamson                   | 3358              | Dev               | 1967           | x                   | 2555-3358              | MI(s)                             |
| 3171                        | 2199                 | Grandview                  | Sec 29                                       | Midwest               | 1                    | Jones                     | 3698              | Dev               | 1968           |                     | 605-3698               | MI(s)                             |
| 3132                        | 2107                 | Grandview                  | Sec 29                                       | Midwest               | 1                    | Minger                    | 3600              | Dev               | 1967           |                     | 315-3600               | MI(s)                             |
| 3189                        | 2192                 | Grandview                  | Sec 30                                       | Midwest               | 1                    | Valentine                 | 3800              | Dev               | 1968           |                     | 606-3790               | MI(s)                             |
| 3187                        | 2200                 | Grandview                  | Sec 34S                                      | Midwest               | 1                    | Dorff                     | 3819              | Dev               | 1968           |                     | 895-3570               | MI(s)                             |
| 3199                        | 2245                 | Grandview                  | Sec 35                                       | Midwest               | 1                    | Cunningham                | 3126              | Dev               | 1968           |                     | 297-3070               | MI(s)                             |
| 3190                        | 2193                 | Grandview                  | Sec 35                                       | Midwest               | 1                    | Anderson                  | 3745              | Dev               | 1968           |                     | 338-3701               | MI(s)                             |
| 3165                        | 2194                 | Grandview                  | Sec 35                                       | Midwest               | 1                    | Scott                     | 3754              | Dev               | 1968           |                     | 210-3745               | MI(s)                             |
| 3198                        | 2242                 | Grandview                  | Sec 35                                       | Midwest               | 1                    | Shapley                   | 3411              | Dev               | 1968           |                     | 310-3411               | MI(s)                             |
| 3159                        | 2195                 | Independence               | Sec 14                                       | AZA                   | 1                    | Richardson                | 1737              | Miss              | 1968           |                     | 570-1720               | MI                                |
| 3154                        | 2196                 | Independence               | Sec 15                                       | Petroleum Specialties | 1                    | Midren                    | 3724              | Dev               | 1968           |                     | 896-3705               | MI(s)                             |
| 3164                        | 2197                 | Independence               | Sec 21                                       | Petroleum Specialties | 1                    | Deucher                   | 3645              | Dev               | 1968           |                     | 865-3632               | MI(s)                             |
| 3180                        | 2198                 | Independence               | Sec 21                                       | Petroleum Specialties | 2                    | Midren                    | 3733              | Dev               | 1968           |                     | 890-3700               | MI(s)                             |
| 3135                        | 2106                 | Independence               | Sec 21                                       | Petroleum Specialties | 1                    | Myer                      | 2317              | Miss              | 1967           |                     | 680-1637               |                                   |



## SUBSURFACE INFORMATION CATALOG

| Permit no.                    | Sample no. | Township  | Land division                         | Operator         | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Information on file |                   | Missing interval(s) |
|-------------------------------|------------|-----------|---------------------------------------|------------------|----------|-----------------------|------------------|----------------|----------------|---------------------|-------------------|---------------------|
|                               |            |           |                                       |                  |          |                       |                  |                |                | Geophys. logs       | Sample range (ft) |                     |
| WASHINGTON COUNTY (continued) |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 3307                          | 2416       | Lawrence  | Sec 15                                | Guernsey         | 1        | Matheny               | 9135             | Ord            | 1970           | x                   | 100-9115          | MI(s)               |
| 3310                          | 2520       | Lawrence  | Sec 15                                | Guernsey         | 2        | Matheny               | 9250             | Ord            | 1971           | x                   | 0-9250            |                     |
| 3100                          | 2382       | Lawrence  | Sec 28                                | Amerida          | 1        | Harman                | 5067             | Dev            | 1967           | x                   | 10-5067           |                     |
| 3157                          | 2391       | Liberty   | Sec 2                                 | Gross            | 1        | West                  | 3355             | Dev            | 1967           | x                   | 927-3344          |                     |
| 3168                          | 2162       | Liberty   | Sec 4                                 | Gross            | 1        | Burkhart              | 3950             | Dev            | 1968           | x                   | 1395-3950         | MI(s)               |
| 3192                          | 2250       | Liberty   | Sec 10                                | Gross            | 1        | Winland               | 5460             | Dev            | 1968           | x                   | 1439-4100         |                     |
| 3206                          | 2388       | Liberty   | Sec 20                                | Oxford           | 1        | Myers                 | 5325             | Dev            | 1968           | x                   | 1337-5325         |                     |
| 3306                          | 2500       | Liberty   | Sec 31                                | Baxter           | 1        | Williams              | 6987             | Dev            | 1968           | x                   | 0-4726            |                     |
| 3191                          | 2244       | Ludlow    | Sec 10                                | Eastern          | 3        | Gebike                | 3306             | Sil            | 1971           | x                   | 1500-6987         | MI(s)               |
|                               |            |           |                                       | Myers            |          | Ronshausen & Thomas   |                  | Dev            | 1968           | x                   | 1503-3306         |                     |
| 3156                          | 2111       | Ludlow    | Sec 25                                | Gittleman        | 1        | Graham                | 3509             | Dev            | 1968           |                     | 800-3504          | MI                  |
| 3121                          | 2119       | Ludlow    | Sec 26                                | Gittleman        | 1        | Rinard                | 1465             | Miss           | 1967           |                     | 600-1401          |                     |
| 3184                          | 2243       | Ludlow    | Sec 28                                | Clinton          | 1        | West                  | 3792             | Dev            | 1968           | x                   | 1375-3768         | MI                  |
| 244                           | 2120       | Ludlow    | Sec 31                                | Gittleman        | 2        | Rinard                | 3322             | Dev            | 1968           |                     | 1808-3336         |                     |
| 3122                          | 2113       | Ludlow    | Sec 32                                | Gittleman        | 1        | Hackathorn & Marshall | 2992             | Dev            | 1967           |                     | 400-2950          | MI                  |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 3376                          | 2916       | Muskingum | Wiseman's Bottom Allot                | Republic         | 1        | Wolf                  | 6225             | Sil            | 1973           | x                   | 1800-6200         | MI(s)               |
| 3322                          | 2588       | Muskingum | Sec 2, 3                              | Ash              | 1        | Ash                   | 1825             | Miss           | 1971           |                     | 0-1826            |                     |
| 3188                          | 2178       | Newport   | Sec 36E                               | A.R.S.           | 1        | Mendenhall            | 2030             | Dev            | 1968           |                     | 1015-1995         | MI                  |
| 3227                          | 2310       | Palmer    | Sec 26                                | Anderson         | 2        | McDougle              | 1017             | Miss           | 1968           |                     | 235-1017          |                     |
| 3373                          | 2917       | Salem     | Lot 66                                | Eastern          | 1        | Dawson                | 6240             | Sil            | 1972           | x                   | 1000-5500         | MI                  |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 2763                          | 2601       | Warren    | Sec 14                                | Union Carbide    | 1        | Union Carbide         | 4505             | Dev            | 1963           | x                   | 592-3085          |                     |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 2851                          | 2404       | Warren    | Sec 15                                | Columbian Carbon | B-1      | Gustke                | 4727             | Dev            | 1962           |                     | 4180-4500         |                     |
| 2869                          | 2604       | Warren    | Sec 16                                | Union Carbide    | 1        | Lee                   | 1261             | Penn           | 1964           |                     | 5-4727            |                     |
| 2880                          | 2605       | Warren    | Sec 16                                | Union Carbide    | 1        | Lee                   | 2140             | Miss           | 1965           | x                   | 599-2120          | MI                  |
| 2902                          | 2606       | Warren    | Sec 16                                | Union Carbide    | 3        | Lee                   | 2140             | Miss           | 1964           | x                   | 635-2140          |                     |
| 2798                          | 2602       | Warren    | Sec 16                                | Union Carbide    | 1        | Wynn                  | 2065             | Miss           | 1963           |                     | 1190-2064         | MI                  |
| 2936                          | 2123       | Warren    | Sec 19                                | Starr            | 1        | Kaneff                | 2190             | Dev            | 1963           |                     | 1885-2190         |                     |
| 2664                          | 2403       | Warren    | Sec 19                                | Ohio East        | 1        | Legleiter             | 4510             | Dev            | 1962           |                     | 1204-4510         | MI(s)               |
| 2958                          | 2607       | Warren    | Sec 22                                | Union Carbide    | 1        | Wolford               | 2075             | Miss           | 1965           | x                   | 600-1121          |                     |
| 3104                          | 2116       | Warren    | Sec 24                                | Gittleman        | 7        | Constitution Stone    | 2174             | Miss           | 1967           |                     | 850-2086          | MI(s)               |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 2999                          | 2124       | Warren    | Sec 25                                | Ohio East        | 1        | Scott                 | 2049             | Miss           | 1966           |                     | 740-2049          | MI(s)               |
| 3366                          | 2854       | Waterford | Lot 9, Olive Green and Elk Run Allot  | Liberty          | 1        | Huck                  | 5353             | Sil            | 1972           | x                   | 0-5320            |                     |
| 3367                          | 2913       | Waterford | Lot 40, Olive Green and Elk Run Allot | Liberty          | 1        | Ullman                | 5867             | Sil            | 1972           | x                   | NP                |                     |
| 1697                          | 2716       | Waterford | Lot 75, Rainbow Creek                 | Putnam           | 1        | Miller                | 4369             | Dev            | 1953           |                     | 260-3072          |                     |
| 1520                          | 2737       | Watertown | Lot 60, Rainbow Creek Allot           | Putnam           | 1        | Arnold                | 4399             | Sil            | 1952           |                     | 4015-4369         |                     |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     | 133-800           |                     |
| 3257                          | 2339       | Watertown | Lot 79, Rainbow Creek Allot           | Liberty          | 1        | Stollar               | 5915             | Sil            | 1969           | x                   | 0-5910            | MI(s)               |
| 1530                          | 2708       | Watertown | Lot 4, South Branch Allot             | Putnam           | 1        | Withington            | 5800             | Sil            | 1952           |                     | 199-4400          |                     |
| 3281                          | 2362       | Wesley    | Sec 23                                | Prudential       | 1        | McPeak                | 5399             | Sil            | 1970           | x                   | 5451-5800         | MI(s)               |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     | 0-5310            |                     |
| WAYNE COUNTY                  |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 589                           | 3159       | Baughman  | Sec 1                                 | East Ohio        | 1        | Resh & Slicker        | 3983             | Sil            | 1957           |                     | 3697-3969         | MI                  |
| 588                           | 3206       | Baughman  | Sec 1                                 | East Ohio        | 2        | Slicker               | 3929             | Sil            | 1957           |                     | 3685-3929         |                     |
| 925                           | 3225       | Baughman  | Sec 4                                 | East Ohio        | 1        | Brillhart             | 3872             | Sil            | 1959           | x                   | 3305-3872         |                     |
| 761                           | 3168       | Baughman  | Sec 11                                | Baughman         | 2        | Butzer                | 3867             | Sil            | 1958           | x                   | 3600-3867         |                     |
| 725                           | 3214       | Baughman  | Sec 11                                | East Ohio        | 1        | Cunningham            | 3910             | Sil            | 1958           | x                   | 3703-3910         |                     |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |
| 802                           | 3163       | Baughman  | Sec 11                                | East Ohio        | 1        | Fox Lake              | 3869             | Sil            | 1958           | x                   | 3624-3832         |                     |
| 718                           | 3221       | Baughman  | Sec 12                                | East Ohio        | 1        | Walsh                 | 3863             | Sil            | 1958           | x                   | 3712-3863         |                     |
| 1563                          | 2283       | Canaan    | Sec 33                                | Hill             | 2        | Wiles                 | 3388             | Sil            | 1969           |                     | 0-3388            | MI                  |
| 1434                          | 2261       | Chippewa  | Sec 15                                | Sun              | 1        | Martin                | 5750             | Camb           | 1965           | x                   | 0-5745            |                     |
| 697                           | 3217       | Chippewa  | Sec 1                                 | East Ohio        | 1        | Berger                | 3921             | Sil            | 1958           | x                   | 3691-3921         | MI(s)               |
|                               |            |           |                                       |                  |          |                       |                  |                |                |                     |                   |                     |

| Permit no.                      | Sample no. | Township    | Land division | Operator             | Well no. | Lease name            | Total depth (ft) | System reached | Date completed | Geophys. logs | Information on file    | Missing interval(s) |
|---------------------------------|------------|-------------|---------------|----------------------|----------|-----------------------|------------------|----------------|----------------|---------------|------------------------|---------------------|
|                                 |            |             |               |                      |          |                       |                  |                |                |               | Sample range (ft)      |                     |
| <b>WAYNE COUNTY (continued)</b> |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
| 649                             | 3208       | Chippewa    | Sec 1         | East Ohio            | 1        | Wagner                | 3977             | Sil            | 1958           | x             | 3735-3977              |                     |
| 77                              | 3161       | Chippewa    | Sec 21        | East Ohio            | 4        | Steiner               | 3614             | Sil            | 1948           |               | 3492-3593              |                     |
| 856                             | 3226       | Chippewa    | Sec 22        | East Ohio            | 2        | Galehouse             | 3682             | Sil            | 1918           |               | 3440-3682              |                     |
| 720                             | 3228       | Chippewa    | Sec 24        | East Ohio            | 2        | Gerbec                | 3974             | Sil            | 1959           | x             | 3229-3974              |                     |
|                                 | 3216       | Chippewa    | Sec 24        | East Ohio            | 1        | Hiltbrand             | 3812             | Sil            | 1958           | x             | 3673-3812              |                     |
| 731                             | 3227       | Chippewa    | Sec 26        | East Ohio            | 1        | Pettit                | 3814             | Sil            | 1958           | x             | 3545-3812              |                     |
| 602                             | 3205       | Chippewa    | Sec 26        | East Ohio            | 2        | Wiley                 | 3802             | Sil            | 1957           | x             | 3589-3764              |                     |
| 560                             | 3162       | Chippewa    | Sec 34        | East Ohio            | 1        | Dawson                | 3784             | Sil            | 1959           | x             | 3554-3779              |                     |
| 573                             | 3219       | Chippewa    | Sec 34        | East Ohio            | 1        | Lusk                  | 3804             | Sil            | 1957           | x             | 3560-3800              |                     |
| 628                             | 3187       | Chippewa    | Sec 35        | East Ohio            | 1        | Casto                 | 3855             | Sil            | 1957           | x             | 3685-3855              |                     |
| 1639                            | 2538       | East Union  | Sec 9         | Buckeye              | 1        | Norton                | 3744             | Sil            | 1971           | x             | 3607-3738              |                     |
| 1651                            | 2591       | East Union  | Sec 10        | Ponderosa            | 2        | Waliz                 | 3721             | Sil            | 1971           | x             | 3555-3686              |                     |
| 1153                            | 901        | East Union  | Sec 23        | Natol                | 1        | Hackett               | 6400             | Camb           | 1962           | x             | 3882-6400              |                     |
| 1685                            | 2965       | Franklin    | Sec 18        | Arens                | A-1      | Cuttler               | 3283             | Sil            | 1972           | x             | NP                     |                     |
| 1564                            | 2252       | Franklin    | Sec 22S       | Werner               | 3        | Rice                  | 3617             | Sil            | 1969           | x             | 205-3617               | MI(s)               |
| 1548                            | 2208       | Milton      | Sec 8         | Werner               | 1        | Miller                | 3386             | Sil            | 1968           | x             | 0-3383                 | MI(s)               |
| 1549                            | 2541       | Milton      | Sec 21        | Oxford               | 2        | Bauman                | 3375             | Sil            | 1968           | x             | 3219-3356              |                     |
| 1765                            | 3057       | Paint       | Sec 1         | Management Control   | 1        | Cramer                | 6603             | Camb           | 1974           |               | 0-510                  |                     |
| 1773                            | 3144       | Paint       | Sec 1         | Management Control   | 2        | Swartzentruber        | 4117             | Sil            | 1974           | x             | 2510-6600              |                     |
| 1799                            | 3256       | Paint       | Sec 3         | Ponderosa            | 1        | Amstutz               |                  |                |                |               | NP                     |                     |
| 1718                            | 2851       | Plain       | Sec 12W       | Mansfield            | 1        | Ginery                | 5061             | Camb           | 1972           | x             | 2300-2384<br>3446-4002 |                     |
| <b>WILLIAMS COUNTY</b>          |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
| 46                              | 2459       | Brady       | Sec 28        | Columbia Gas         | M-45     | Kelley                | 130              | Dev            | 1971           | x             | 65-130 W               | MI(s)               |
| 45                              | 2636       | Bridgewater | Sec 13        | Columbia Gas         |          | Cook                  | 4497             | PC             | 1971           | x             | 780-4490               |                     |
|                                 | 2617       | Bridgewater | Sec 13        |                      |          | Kollar                | 3299             | Camb           |                |               | 285-3299               |                     |
| 47                              | 2457       | Bridgewater | Sec 25        |                      | M-43     | Hillard               | 205              | Dev            |                |               | 22-205 W               | MI(s)               |
|                                 | 2822       | Florence    | Sec 17        | Sohio                | 1        | Lautzenheiser         | 3005             | Camb           | 1972           | x             | 30-3005                |                     |
|                                 | 2458       | Florence    | Sec 36        |                      | M-44     | Stevensaler           | 160              | Dev            |                |               | 0-160 W                |                     |
| <b>WOOD COUNTY</b>              |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
|                                 | 2462       | Bloom       | Sec 36        |                      | P-3      | Bloomdale(vill)       | 230              | Sil            |                |               | 20-230 W               |                     |
|                                 | 2466       | Center      | Sec 27        |                      | P-9      | Stewart               | 235              | Sil            |                |               | 22-235 W               |                     |
| 283                             | 2323       | Henry       | Sec 11        |                      | 2        | Leathers              | 1196             | Ord            | 1969           |               | 0-1196                 |                     |
|                                 | 2474       | Henry       | Sec 35        | Universal            | P-18     | North Baltimore(vill) | 300              | Sil            |                |               | 25-300 W               |                     |
| 287                             | 2333       | Henry       | Sec 36        | Nahabedian & Fawcett | 1        | Stevens               | 1838             | Camb           | 1969           | x             | 12-1838                | MI(s)               |
|                                 | 2452       | Milton      | Sec 2         |                      | M-38     | Weston(vill)          | 310              | Sil            |                |               | 65-310 W               |                     |
|                                 | 2465       | Montgomery  | Sec 24        |                      | P-8      | Brockschmidt          | 260              | Sil            |                |               | 28-260 W               |                     |
|                                 | 2472       | Webster     | Sec 25        |                      | P-14     | Bruggemeier           | 250              | Sil            |                |               | 50-250 W               |                     |
| <b>WYANDOT COUNTY</b>           |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
| 223                             | 2592       | Crane       | Sec 18        | Brown                | 2        | Luthy                 | 1384             | Ord            | 1971           |               | 0-1370                 | MI(s)               |
|                                 | 2481       | Pitt        | Sec 7         |                      | S-7      | Ohio Wildlife         | 290              | Sil            |                |               | 82-290 W               |                     |
|                                 | 2479       | Pitt        | Sec 15        |                      | S-5      | Miller                | 320              | Sil            |                |               | 10-320 W               |                     |
|                                 | 2480       | Pitt        | Sec 17        |                      | S-6      | Newell                | 300              | Sil            |                |               | 76-300 W               |                     |
|                                 | 2485       | Richland    | Sec 13        |                      | S-9      | Kear                  | 220              | Sil            |                |               | 50-220 W               |                     |
|                                 | 2417       | Richland    | Sec 27        |                      | M-1      | Schoenberger          | 190              | Sil            |                |               | 40-190 W               |                     |
|                                 | 2486       | Salem       | Sec 6         |                      | S-10     | Fredritz              | 200              | Sil            |                |               | 30-200 W               |                     |
|                                 | 2487       | Salem       | Sec 11        |                      | S-11     | Schmidt               | 180              | Sil            |                |               | 33-180 W               |                     |
|                                 | 2490       | Sycamore    | Sec 5         |                      | S-14     | Stever                | 200              | Sil            |                |               | 64-200 W               |                     |
| <b>KENTUCKY</b>                 |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
| <b>CARTER COUNTY</b>            |            |             |               |                      |          |                       |                  |                |                |               |                        |                     |
|                                 | Ky-31      |             | 14-V-81       | Inland               | 538      | Coalton               | 7272             |                | 1969           | x             | 120-7272               | MI(s)               |



| Permit no. | Sample no.   | Township                   | Land division | Operator     | Well no. | Lease name | Total depth (ft) | System reached | Date completed | Geophys. logs | Information on file | Missing interval(s) |
|------------|--------------|----------------------------|---------------|--------------|----------|------------|------------------|----------------|----------------|---------------|---------------------|---------------------|
| 2565       | CANADA       |                            |               |              |          |            |                  |                |                |               | Sample range (ft)   | MI(s)               |
|            | ELGIN COUNTY |                            |               |              |          |            |                  |                |                |               | 650-4540            |                     |
|            | Can-20       | Offshore well in Lake Erie |               | Pan American | 13039    |            | 4540             | PC             |                |               |                     |                     |
|            | ESSEX COUNTY |                            |               |              |          |            |                  |                |                |               |                     |                     |
|            | Can-21       | Offshore well in Lake Erie |               | Amerada      | 2        | Amerada    | 3071             | PC             | 1969           | x             | NP                  |                     |